

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

# **NAAC DOCUMENTS**

**QUALITY INDICATOR FRAME WORK** 

CRITERION - 1

## **CURRICULAR ASPECTS**

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL
INDRA GANESAN COLLEGE OF ENGINEERING









| Criterion 1 | Curricular Aspects | 100 |
|-------------|--------------------|-----|
|-------------|--------------------|-----|

#### 1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

#### **AND**

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

| Academic<br>Year             | Semester | Name of the<br>Department | Number of<br>Add on/<br>Certificate<br>Programs<br>Offered | Name of Add on/Certificate Programs Offered   | No of<br>Students<br>Enrolled | Page No   |
|------------------------------|----------|---------------------------|--|---|-------------------------------|-----------|
|                              |          | CIVIL & AGRI              | 1  | Vertical Farming  | 24                            | 7 - 19    |
|                              |          | CSE, AIDS & ME-<br>CSE    | 1  | Angular JS  | 100                           | 20 - 33   |
|                              |          | EEE                       | 1  | Power grid Protection   | 32                            | 34 - 50   |
| 2022-2023                    | ODD      | ECE                       | 1  | Introduction to Robotics  | 47                            | 51 - 57   |
|                              |          | MECH                      | 1  | Mechanical, Electrical and Plumbing Methods   | 45                            | 58 - 66   |
|                              |          | IT                        | 1  | Speech Recognition Technology in Natural Network                                      | 90                            | 67 - 79   |
|                              |          | S&H                       | 1  | Course on Matlab  | 158                           | 80 - 100  |
|                              |          | MBA                       | 1  | Excel For Business Analytics  | 65                            | 101 - 110 |
|                              |          | CIVIL & AGRI              | 1  | Hydroponics   | 24                            | 111 - 126 |
|                              |          | CSE, AIDS & ME-<br>CSE    | 1  | Ruby on Rails   | 100                           | 127 - 140 |
|                              |          | EEE                       | 1  | Electrical safety & maintenance   | 32                            | 141 - 153 |
| 2022-2023                    | EVEN     | ECE                       | 1  | Fiber Optic System Design and Simulation  | 47                            | 154 - 162 |
| 2022-2023                    | EVEN     | MECH                      | 1  | Heat ventilation air conditioning   | 48                            | 163 - 169 |
|                              |          | IT                        | 1  | Application of Image Processing in Information Technology                             | 90                            | 170 - 182 |
|                              |          | S&H                       | 1  | Course on Latex   | 158                           | 183 - 197 |
|                              |          | MBA                       | 1  | Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) using AMOS | 23                            | 198 - 200 |
| Total Certifi<br>Academic ye |          | s offered in the<br>23    | 16   | Total No. of Students Enrolled in the Certificate Program                             | 1083                          |           |

| Academic<br>Year              | Semester | Name of the<br>Department | Number of<br>Add on/<br>Certificate<br>Programs<br>Offered | Name of Add on/Certificate Programs Offered               |           | Page No   |
|-------------------------------|----------|---------------------------|--|---|-----------|-----------|
|                               |          | CIVIL                     | 1  | Project Management in Primavera                           | 25        | 201 - 217 |
|                               |          | CSE, & ME-CSE             | 1  | Ethical Hacking   | 96        | 218 - 232 |
|                               |          | EEE                       | 1  | Electrochemical Energy Storage                            | 38        | 233 - 245 |
| 2021-2022                     | ODD      | ECE                       | 1  | Lab view  | 53        | 246 - 261 |
| 2021-2022                     | טטט      | MECH                      | 1  | Solid state Joining Technologies                          | 43        | 262 - 275 |
|                               |          | IT                        | 1  | Manipulation of Nano Technology in Materials              | 75        | 276 - 289 |
|                               |          | S&H                       | 1  | Basic of electrical, plumbing & two wheeler mechanism     | 152       | 290 - 297 |
|                               |          | MBA                       | 1  | Preparation of Payroll for an Organisation                | 26        | 298 - 310 |
|                               |          | CIVIL                     | 1  | STAAD PRO   | 25        | 311 - 327 |
|                               |          | CSE, & ME-CSE             | 1  | Django Framework  | 96        | 328 - 342 |
|                               |          | EEE                       | 1  | Automation using PLC and SCADA                            | 38        | 343 - 355 |
|                               |          | ECE                       | 1  | Introduction to Machine Learning                          | 52        | 356 - 365 |
| 2021-2022                     | EVEN     | MECH                      | 1  | Graphene Battery Technologies                             | 69        | 367 - 378 |
|                               |          | IT                        | 1  | Deep Learning in Cyber Security                           | 75        | 379 - 391 |
|                               |          | S&H 1 Digital marketing   | Digital marketing  | 152   | 392 - 402 |           |
|                               |          | MBA                       | 1  | Etiquettes for Managers                                   | 58        | 403 - 403 |
| Total Certific<br>Academic ye |          | offered in the            | 16   | Total No. of Students Enrolled in the Certificate Program | 1073      |           |

| Academic<br>Year              | Semester | Name of the<br>Department | Number of<br>Add on/<br>Certificate<br>Programs<br>Offered | Name of Add on/Certificate Programs Offered               |     | Page No   |
|-------------------------------|----------|---------------------------|--|---|-----|-----------|
|                               |          | CIVIL                     | 1  | Advanced Surveying  | 25  | 404 - 415 |
|                               |          | CSE, & ME-CSE             | 1  | Machine Learning With R                                   | 82  | 416 - 426 |
|                               |          | EEE                       | 1  | IoT-Raspberry Pi  | 46  | 427 - 433 |
| 2020-2021                     | ODD      | ECE                       | 1  | Arduino Programming                                       | 53  | 434 - 438 |
| 2020-2021                     | טטט      | MECH                      | 1  | Master CAM  | 37  | 439 - 447 |
|                               |          | IT                        | 1  | F&B Development in Full Stack                             | 63  | 448 - 452 |
|                               |          | S&H                       | 1  | Climate change  | 145 | 453 - 461 |
|                               |          | MBA                       | 1  | Advanced Accounting Package with GST                      | 28  | 462 - 474 |
|                               |          | CIVIL                     | 1  | Building Information Modeling                             | 25  | 475 - 487 |
|                               |          | CSE, & ME-CSE             | 1  | Big Data Analytics  | 82  | 488 - 504 |
|                               |          | EEE                       | 1  | Solar Photovoltaic System Design                          | 44  | 505 - 511 |
|                               |          | ECE                       | 1  | PLC and Industrial Networking                             | 53  | 512 - 517 |
| 2020-2021                     | EVEN     | MECH                      | 1  | Application of NX CAD                                     | 46  | 518 - 528 |
|                               |          | IT                        | 1  | Handling of Tools and Technology for Disaster             | 63  | 529 - 532 |
|                               |          | S&H                       | 1  | Android app development                                   | 145 | 533 - 541 |
|                               |          | MBA                       | 1  | Performance Management System with Case Studies           | 26  | 542 - 554 |
| Total Certific<br>Academic ye |          | offered in the            | 16   | Total No. of Students Enrolled in the Certificate Program | 963 |           |

| Academic<br>Year              | Semester | Name of the<br>Department | Number of<br>Add on/<br>Certificate<br>Programs<br>Offered | Name of Add on/Certificate Programs Offered               | No of<br>Students<br>Enrolled | Page No   |
|-------------------------------|----------|---------------------------|--|---|-------------------------------|-----------|
|                               |          | CIVIL                     | 1  | Estimation and Current Practices in Civil Engineering     | 44                            | 555 - 571 |
|                               |          | CSE, & ME-CSE             | 1  | PHP   | 99                            | 572 - 584 |
|                               |          | EEE                       | 1  | Automation and Robotics                                   | 63                            | 585 - 597 |
|                               |          | ECE                       | 1  | PIC Microcontroller and ARM Processor                     | 72                            | 598 - 607 |
| 2019-2020                     | ODD      | MECH                      | 1  | Evaluation of CREO  | 41                            | 608 - 616 |
|                               |          | IT                        | 1  | Cloud Service Management Tools                            | 73                            | 617 - 633 |
|                               |          | S&H                       | 1  | Multimedia design   | 78                            | 634 - 641 |
|                               |          | MBA                       | 1  | Special Training on Digital Marketing                     | 42                            | 642 - 650 |
|                               |          | CIVIL                     | 1  | Safety in Construction                                    | 44                            | 651 - 661 |
|                               |          | CSE, & ME-CSE             | 1  | Agumented Reality and Virtual Reality                     | 99                            | 662 - 668 |
|                               |          | EEE                       | 1  | Smart Grid Technology                                     | 63                            | 667 - 678 |
|                               |          | ECE                       | 1  | Internet of things  | 72                            | 679 - 685 |
| 2019-2020                     | EVEN     | MECH                      | 1  | External Aerodynamics simulations                         | 65                            | 687 - 694 |
|                               |          | IT                        | 1  | Smart Computing Technologies in IOT                       | 77                            | 695 - 698 |
|                               |          | S&H                       | 1  | Recent development in nanotechnology                      | 78                            | 699 - 707 |
|                               |          | MBA                       | 1  | ERP Basics and Its Applicability in Modern Era            | 28                            | 708 - 724 |
| Total Certific<br>Academic ye |          | offered in the            | 16   | Total No. of Students Enrolled in the Certificate Program | 1038                          |           |

| Academic<br>Year              | Semester | Name of the<br>Department         | Number of<br>Add on/<br>Certificate<br>Programs<br>Offered | Name of Add on/Certificate Programs Offered                   | No of<br>Students<br>Enrolled | Page No   |
|-------------------------------|----------|-----------------------------------|--|---|-------------------------------|-----------|
|                               |          | CIVIL                             | 1  | Revit Architecture  | 70                            | 725 - 741 |
|                               |          | CSE, & ME-CSE                     | 1  | Data Mining   | 115                           | 742 - 760 |
|                               |          | EEE                               | 1  | Electrical Machine Design, Winding, Assembling, & Dismantling | 92                            | 761 - 773 |
| 2018-2019                     | ODD      | ECE                               | 1  | PCB Designing   | 72                            | 774 - 780 |
|                               |          | MECH                              | 1  | Introduction to CAD/CAM and Practical CNC Machining           | 106                           | 781 - 787 |
|                               |          | IT                                | 1  | Future of AI&ML in Information Technology                     |                               | 789 - 802 |
|                               |          | S&H 1 Computer Fundamentals 123 8 |  | 803 - 811   |                               |           |
|                               |          | MBA                               | 1  | Enrichment Programme on Personality for Entrepreneurship      | 61                            | 812 - 828 |
|                               |          | CIVIL                             | 1  | Importance of Software in Civil Engineering                   | 70                            | 829 - 845 |
|                               |          | CSE, & ME-CSE                     | 1  | C#  | 115                           | 846 - 859 |
|                               |          | EEE                               | 1  | Develop and Implement of Renewable Energy system using Matlab | 92                            | 860 - 875 |
|                               |          | ECE                               | 1  | RASPBERRY PI  | 72                            | 876 -880  |
| 2018-2019                     | EVEN     | MECH                              | 1  | Model Based System Engineering                                | 106                           | 881 - 889 |
|                               |          | IT                                | 1  | Android App Development                                       | 80                            | 890 - 911 |
|                               |          | S&H                               | 1  | An advance approach to web designing                          | 123                           | 912 - 920 |
|                               |          | MBA                               | 1  | Managerial Accounting Using Tally                             | 61                            | 921 - 933 |
| Total Certific<br>Academic ye |          | offered in the                    | 16   | Total No. of Students Enrolled in the Certificate Program     | 1438                          |           |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "VERTICAL FARMING""

#### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. What is one advantage to vertical farming?
  - a) Its fast
  - b) Year round
  - c) Increases jobs
  - d) Makes food taste like candy
- 2. What is the global population in 2050?
  - a) 10 million
  - b) 15 billion
  - c) 10 billion
  - d) 15 trillion
- 3. How much of earth's land is being used for crop production
  - a) 11%
  - b) 5%
  - c) 20%
  - d) 100%
- 4. Disadvantage of Vertical Farming
  - a) seasonal growth
  - b) Less jobs
  - c) Weather impacts plant production
  - d) creates runoff
- 5. What is needed in order to create a vertical farm
  - a) Be a pro gardener
  - b) Have to be a botanist
  - c) Have LED lights
  - d) Have Quick Maf skills

Dr. G. Balakrishnan, M.E. Ph.D.
Dr. G. Balakrishnan, M.E. Ph.D



# Indra Ga COLLEGE OF ENGINEERING





| o. Why is Traditional Farming bad         |   |
|---|---|
| a) Creates better soil                    |   |
| b) Uses pesticides                        |   |
| c) Destroys local businesses              |   |
| d) Damages the atmosphere                 |   |
| 7. Agriculture is a                       |   |
| a) Greek word                             |   |
| b) Latin word                             |   |
| c) German word                            |   |
| d) Spanish                                |   |
| 8. The term agronomy is derived from      |   |
| (A) German word                           |   |
| (B) Latin word                            |   |
| (C) Spanish                               |   |
| (D) Greek word                            |   |
| 9. Primary resource for agriculture       | .0 .1   |
| (A) Land, air and water                   |   |
| (B) Seed, Fertilizer and Pesticide        |   |
| (C) Seed, air and water                   | Dr. G. Balakrishnan, M.E., Ph.D.,                                 |
| (D) Land, Fertilizer and water            | Principal   |
| 10. Cultivation of rice begins in         | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |
| (A) 2200 BC                               | Manikandam, Trichy-620 012.                                       |
| (B) 5700 BC                               |   |
| (C) 7700 BC                               |   |
| (D) 8700 BC                               |   |
| 11. The book 'Horse hoeing husbandry' was | published by  |
| (A) Van Helmont                           | switched by   |
| (B) Gregor Johann Mendel                  |   |
| C) Jethrotull                             |   |
| D) None                                   |   |
| 2. Kharif, Rabi and Zaid word belong to   |   |
| A) Urdu                                   |   |
| B) French                                 |   |
| C) Persian (D) Arabic                     |   |
| \ , <del> </del>                          |   |







| 13. Principles of mercury barometers was discovered by    |                                   |
|---|-----------------------------------|
| (A) Torricelli  |                                   |
| (B) Aristotle   |                                   |
| (C) Pliny   |                                   |
| (D) Galileo   |                                   |
| 14. The term PET was coined by                            |                                   |
| (A) Sarkar and Biswas                                     |                                   |
| (B) Haigreaves  |                                   |
| (C) Thornthwaite  |                                   |
| (D) Mendel  |                                   |
| 15. National Research Centre for Litchi (NRCL) is located | at                                |
| (A) Pune  |                                   |
| (B) Muzaffarpur   |                                   |
| (C) Lucknow   |                                   |
| (D) Kolkata   |                                   |
| 16. National Biodiversity Authority is located at         | _                                 |
| (A) Chennai   | 0                                 |
| (B) New Delhi   | JP /                              |
| (C) Nagpur  | WE BHD                            |
| (D) Gurgaon   | Dr. G. Balakrishnan, M.E., Ph.D., |
| 17. International Potato Research Centre at               | Principal of Engineering          |
| (A) Shimla  |                                   |
| (B) Peru  | Manikandam, Trichy-620 012.       |
| (C) Rome  |                                   |
| (D) USA   |                                   |
| 18. Father of Horticulture                                |                                   |
| (A) Thomas Andrew Knight                                  |                                   |
| (B) Liberty Hyde Bailey                                   |                                   |
| (C) John Lindley  |                                   |
| (D) All of the above                                      |                                   |
| 19. Word "Horticulture" is derived from                   |                                   |
| (A) Latin   |                                   |
| (B) English   |                                   |







| (C) Greek   |                                      |
|---|--------------------------------------|
| (D) Italic  |                                      |
| 20. New seed police was launched in                     |                                      |
| (A) 1982  |                                      |
| (B) 1992  |                                      |
| (C) 1988  |                                      |
| (D) 1986  |                                      |
| 21. Pomology is derived from                            |                                      |
| (A) Latin   |                                      |
| (B) French  |                                      |
| (C) English   |                                      |
| (D) Greek   |                                      |
| 22. The germplasm theory was proposed by                |                                      |
| (A) Weisman   |                                      |
| (B) Mendel  |                                      |
| (C) Darwin  |                                      |
| (D) Hugo de vries                                       | 10 .                                 |
| 23. Which of the following bases is not present in DNA? | D:                                   |
| (A) Adenine   | Dr.C. Dalla                          |
| (B) Thymine   | Dr. G. Balakrishnan, M.E., Ph.D.,    |
| (C) Uracil  | Indra Ganesan College of Engineering |
| (D) Cytosine  | Toney, Waldural Main Band            |
| 24. Balbiani rings are found in which of the following  | Manikandam, Trichy-620 012.          |
| (A) Lampbrush chromosomes                               |                                      |
| (B) Sex chromosomes                                     |                                      |
| (C) Polytene chromosomes                                |                                      |
| (D) B chromosomes                                       |                                      |
| 25. The term 'genotype' and 'phenotype' were introduced | by                                   |
| (A) W.L. Johannsen                                      |                                      |
| (B) W.Bateson   |                                      |
| (C) G.J. Mendel   |                                      |
| (D) R.C. Punnet   |                                      |



## COLLEGE OF ENGINEERING





## Value Added Course on "VERTICAL FARMING"

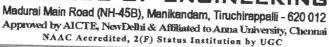
#### **ANSWER KEY**

| 1 | b | 6  | b | 11 | c | 16 | a | 21  | d |
|---|---|----|---|----|---|----|---|-----|---|
| 2 | С | 7  | b | 12 | d | 17 | b | 22  | a |
| 3 | a | 8  | d | 13 | a | 18 | d | 23  | С |
| 4 | С | 9  | a | 14 | С | 19 | a | ·24 | c |
| 5 | С | 10 | a | 15 | b | 20 | c | 25  | a |

bordinator



#### COLLEGE OF ENGINEERING





Name of the Student: Charulatha V

Year/Sem: I AGRI

AU Register Number: 811221225007

Value Added Course on "VERTICAL FARMING""

### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. What is one advantage to vertical farming?
  - a) Its fast
  - (b) Year round
  - c) Increases jobs
  - d) Makes food taste like candy
- 2. What is the global population in 2050?
  - a) 10 million
  - b) 15 billion
  - c) 10 billion
  - (d) 15 trillion
- 3. How much of earth's land is being used for crop production
- ·a) 11%
- (b) 5%
  - c) 20%
  - d) 100%
- 4. Disadvantage of Vertical Farming
  - a) seasonal growth
  - b) Less jobs
  - Weather impacts plant production
  - d) creates runoff
- 5. What is needed in order to create a vertical farm
  - a) Be a pro gardener
  - b) Have to be a botanist
  - (c) Have LED lights
  - d) Have Quick Maf skills

D:

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 112







| 6. Why is Traditional Farming bad                      |                                      |
|--|--------------------------------------|
| a) Creates better soil                                 |                                      |
| (b) Uses pesticides                                    |                                      |
| c) Destroys local businesses                           |                                      |
| d) Damages the atmosphere                              |                                      |
| 7. Agriculture is a                                    |                                      |
| a) Greek word  |                                      |
| (b) Latin word   |                                      |
| c) German word   |                                      |
| d) Spanish   |                                      |
| 8. The term agronomy is derived from                   |                                      |
| (A) German word  |                                      |
| (B) Latin word   |                                      |
| Spanish  |                                      |
| (D) Greek word   |                                      |
| 9. Primary resource for agriculture                    |                                      |
| A Land, air and water                                  |                                      |
| (B) Seed, Fertilizer and Pesticide                     |                                      |
| (C) Seed, air and water                                | D. C. D. I. I. Ishaan M.P. Dh.B.     |
| (D) Land, Fertilizer and water                         | Dr. G. Balakrishnan, M.E., Ph        |
| 10. Cultivation of rice begins in                      | Indra Ganesan College of Engineering |
| (A) 2200 BC  | IG Valley, Madurai Main Road         |
| (B) 5700 BC  | Manikandam, Trichy-620 012.          |
| (C) 7700 BC  |                                      |
| (D) 8700 BC  |                                      |
| 11. The book 'Horse hoeing husbandry' was published by |                                      |
| (A) Van Helmont  |                                      |
| (B) Gregor Johann Mendel                               |                                      |
| (C) Jethrotult   |                                      |
| (D)None  |                                      |
| 12. Kharif, Rabi and Zaid word belong to               |                                      |
| (A) Urdu   |                                      |
| (B) French   |                                      |
| (C) Persian (D)Arabic                                  |                                      |
| * /  |                                      |







| 13 Principles of mercury barometers was discovered by        |  |
|--|--|
| (A) Torricelli   |  |
| (B) Aristotle  |  |
| (C) Pliny  |  |
| (D) Galileo  |  |
| 14. The term PET was coined by                               |  |
| (A) Sarkar and Biswas  |  |
| (B) Haigreaves   |  |
| (C) Thornthwaite   |  |
| (D) Mendel   |  |
| 15. National Research Centre for Litchi (NRCL) is located at |  |
| (A) Pune   |  |
| (B) Muzaffarpur  |  |
| (C) Lucknow  |  |
| (D) Kolkata  | (0.1   |
| 16. National Biodiversity Authority is located at            |  |
| (A) Chennai  | 10 /   |
| (B) New Delhi  |  |
| (C) Nagpur   | Dr. G. Balakrishnan, M.E., Ph.D.,              |
| (D) Gurgaon  | Principal Indra Ganesan College of Engineering |
| 17. International Potato Research Centre at                  | IG Valley, Madurai Main Road                   |
| (A) Shimla   | Manikandam, Trichy-620 012.                    |
| (B)Peru  |  |
| (C) Rome   |  |
| (D) USA  |  |
| 18. Father of Horticulture                                   |  |
| (A) Thomas Andrew Knight                                     |  |
| (B) Liberty Hyde Bailey                                      |  |
| (C) John Lindley   |  |
| D)All of the above   |  |
| 19. Word "Horticulture" is derived from                      |  |
| A) Latin   |  |
| B) English .   | Security (                                     |







| (C) Greek  |  |
|--|--|
| (D) Italic   |  |
| 20. New seed police was launched in                        |  |
| (A) 1982   |  |
| (B) 1992   |  |
| ©)1988   |  |
| (D) 1986   |  |
| 21. Pomology is derived from                               |  |
| (A) Latin  |  |
| (B) French   |  |
| (C) English  |  |
| (D) Greek  |  |
| 22. The germplasm theory was proposed by                   |  |
| (A) Weisman  |  |
| (B) Mendel   |  |
| (C) Darwin   |  |
| (D) Hugo de vries  |  |
| 23. Which of the following bases is not present in DNA?    |  |
| (A) Adenine  | CP.  |
| (B) Thymine  | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| (C)Uracil  | Principal  |
| (D) Cytosine   | College of Engineering   |
| 24. Balbiani rings are found in which of the following     | Indra Ganesal College<br>IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012, |
| (A) Lampbrush chromosomes                                  | Manikawain, meny   |
| (B) Sex chromosomes  |  |
| (C) Polytene chromosomes                                   |  |
| (D) B chromosomes  |  |
| 25. The term 'genotype' and 'phenotype' were introduced by |  |
| W.L. Johannsen   |  |
| (B) W.Bateson  |  |
| (C) G.J. Mendel  |  |
| (D) R.C. Punnet  |  |
|  |  |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student : Dhaum kumar

Year/Sem: II /civil

AU Register Number: 81122019301

Value Added Course on "VERTICAL FARMING""

#### MCQ QUESTIONS (25X) = 26 Marks)

- 1. What is one advantage to vertical farming?
  - a) Its fast
  - (b) Year round
  - c) Increases jobs
  - d) Makes food taste like candy
- 2. What is the global population in 2050?
  - a) 10 million
  - b) 15 billion
  - (c) 10 billion
  - d) 15 trillion
- 3. How much of earth's land is being used for crop production
  - (a)) 11%

  - c) 20%
  - d) 100%
- 4. Disadvantage of Vertical Farming
  - a) seasonal growth
  - b) Less jobs
  - Weather impacts plant production
  - d) creates runoff
- 5. What is needed in order to create a vertical farm
  - a) Be a progardener
  - b) Have to be a botanist
  - (c) Have LED lights
  - d) Have Quick Maf skills



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesari College of Engineering IG Valley, Madurai Wain Road Manikandam Trichy-620 012.







| o. Why is Traditional Farming bad                 |  |
|---|--|
| a) Creates better soil                            |  |
| Uses pesticides                                   |  |
| c) Destroys local businesses                      |  |
| d) Damages the atmosphere                         |  |
| 7. Agriculture is a                               |  |
| a) Greek word                                     |  |
| Latin word  |  |
| c) German word                                    |  |
| d) Spanish  |  |
| 8. The term agronomy is derived from              |  |
| (A) German word                                   |  |
| (B) Latin word                                    |  |
| Spanish   |  |
| (D) Greek word                                    |  |
| 9. Primary resource for agriculture               | ()   |
| (A) Land, air and water                           | CA .   |
| (B) Seed, Fertilizer and Pesticide                |  |
| (C) Seed, air and water                           | Dr. G. Balakrishnan, M.E., Ph.D.,              |
| (D) Land, Fertilizer and water                    | Principal Indra Ganesan College of Engineering |
| 10. Cultivation of rice begins in                 | TG Valley, Madurai Main Road                   |
| (A) 2200 BC                                       | Manikandam, Trichy-620 012.                    |
| B) 5700 BC  |  |
| (C) 7700 BC                                       |  |
| (D) 8700 BC                                       |  |
| 11. The book 'Horse hoeing husbandry' was publish | hed by   |
| (A) Van Helmont                                   | ,  |
| (B) Gregor Johann Mendel                          |  |
| (C) Jetbrotull                                    |  |
| (D) None  |  |
| 12. Kharif, Rabi and Zaid word belong to          |  |
|   |  |
|   |  |
| (A) Urdu (B) French                               |  |



# Indra Ganesan COLLEGE OF ENGINEERING



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

| 13. Principles of mercury barometers was discovered   | by   |
|---|--|
| (A) Torricelli  |  |
| (B) Aristotle   |  |
| (C) Pliny   |  |
| (D) Galileo   |  |
| 14. The term PET was coined by                        |  |
| (A) Sarkar and Biswas                                 |  |
| (B) Haigreaves  |  |
| C)Thornthwaite  |  |
| (D) Mendel  |  |
| 15. National Research Centre for Litchi (NRCL) is loc | cated at   |
| (A) Pune  |  |
| B) Muzaffarpur  | •  |
| (C) Lucknow   |  |
| (D) Kolkata   |  |
| 16. National Biodiversity Authority is located at     |  |
| A Chennai   |  |
| (B) New Delhi   |  |
| (C) Nagpur  |  |
| (D) Gurgaon   | ( )  |
| 17. International Potato Research Centre at           | Carrier and the carrier and th |
| (A) Shimla  | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| B Peru  | As from  |
| (C) Rome  | Indra Ganesan Co. Co. Co. Co. Brain Board  |
| (D) USA   | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012.  |
| 18. Father of Horticulture                            | 140011111111111111111111111111111111111  |
| (A) Thomas Andrew Knight                              | •  |
| (B) Liberty Hyde Bailey                               |  |
| (C) John Lindley                                      |  |
| (D) All of the above                                  |  |
| 19. Word "Horticulture" is derived from               |  |
| (A) Latin   |  |
| (B) English   |  |







| (C) Greek  |   |
|--|---|
| (D) Italic   |   |
| 20. New seed police was launched in                        |   |
| (A) 1982   |   |
| (B) 1992   |   |
| 1988   |   |
| (D) 1986   |   |
| 21. Pomology is derived from                               |   |
| (A) Latin  |   |
| (B) French   |   |
| (C) English  |   |
| (D) Greek  |   |
| 22. The germplasm theory was proposed by                   |   |
| (A) Weisman  |   |
| (B) Mendel   |   |
| (C) Darwin   |   |
| (D) Hugo de vries  | 0.  |
| 23. Which of the following bases is not present in DNA?    |   |
| (A) Adenine  | M.E. Ph.D.  |
| (B) Thymine  | Dr. G. Balakrishnan, M.E., Ph.D., Principal   |
| Uracil   | Dr. G. Principal Principal Indra Ganesan College of Engineering Main Read Address Malley, Madurai Main Read |
| (D) Cytosine   | Indra Ganesan College of English<br>IG Valley, Madurai Main Read<br>Ikandam, Trichy-620 012.                |
| 24. Balbiani rings are found in which of the following     | Indra Ganeso, Madurai Maii No.<br>IG Valley, Madurai Maii No.<br>Manikandam, Trichy-620 012.                |
| (A) Lampbrush chromosomes                                  |   |
| (B) Sex chromosomes  |   |
| (C) Polytene chromosomes                                   |   |
| (D) B chromosomes  |   |
| 25. The term 'genotype' and 'phenotype' were introduced by |   |
| (A) W.L. Johannsen   |   |
| (B) W.Bateson  |   |
| (C) G.J. Mendel  |   |
| (D) R.C. Punnet  |   |





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

Academic Year 2022-2023 - Odd Semester

| Name of the Student :   | Year/Sem:                                  |
|---|--|
| AU Register Number:   |  |
| Value Added Co  | ourse on "Angular JS"                      |
| MCQ QUESTIO   | NS (25X4 = 100 Marks)                      |
| 1) Which of the following statement                           | is correct for AngularJS?                  |
| a) AngularJS is an HTML framework                             | b) AngularJS is a Java framework           |
| c) AngularJS is a JavaScript framewo                          | rk d) AngularJS is a SQL framework         |
| 2) On which of the Architectural pa                           | ttern AngularJS is based?                  |
| a) Observer Pattern   | b) Decorator pattern                       |
| c) MVC Architecture pattern                                   | d) MVVM Architectural pattern              |
| 3) Angular is perfect for?                                    |  |
| a) SPAs   | b) MPAs                                    |
| e) DPAs   | d) CPAs                                    |
| 4) Which of the following directive i HTML view in AngularJS? | s used to bind the application data to the |
| a) ng-app directive   | b) ng-model directive                      |
| e) ng-bind directive  | d) ng-init directive                       |
| 5) Which of the following syntax is c<br>AngularJS?           | orrect for applying multiple filters in    |
| a) {{ expression   filter1   filter2   }<br>filter2}   }}     | <pre>b){{ expression   {filter1}  </pre>   |
| e) {{ expression - {filter1} - {filter2} expression}}         | }}d){{ {filter1}   {filter2}               |





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellni & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 - Odd Semester

- 6) Which of the following is an advantage of AngularJS?
- a) AngularJS code is unit testable. reusable components.

- b) AngularJS provides
- c) AngularJS uses dependency injection and makes use of separation of concerns.d) All of the above
- 7) Which of the following statement is true about \$dirty flag?
- a) \$dirty flag is used to state that value has been changed
- b) \$dirty flag is used to state that the form has invalid data.
- c) Both of the above.

- d) None of the above.
- 8) What will be the output for the following code?
- 1. <div ng-app=""" ng-init=""points=[1,15,19,2,40]"">
- 2. p>The output is {{ points[2] }}
- 3. </div>
- a) The output is 1
- b) The output is 15
- c) The output is 19
- d) The output is 2
- 9) What is the use of Angular Controllers in the application?
- a) Angular controllers are used for controlling the data.
- b) Angular controllers are used for displaying the data.
- C) Both of the above are correct.
- d) None of the above is correct.
- 10) Which of the following syntax is used to create a module in AngularJS?
- a) Var myModule= angular. Module(); b) var myModule= new Module();
- c) Module ("app", []);

d) none of the above





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 - Odd Semester

| 11) Which of the folin AngularJS?             | lowing is used to share data between controller and view   |
|---|--|
| a) using Model                                | b) using services  |
| c) Using factory                              | d) using \$scope   |
| 12) Which of the following Angular JS?        | lowing statement specifies the data-binding in             |
| a) Synchronization of                         | data between the model and view components.                |
| b) Synchronization of                         | data between the model and controller components.          |
| c) Synchronization of                         | data between the controller and view components.           |
| d) None of the above                          |  |
| 13) Which of the following                    | owing is not a valid AngularJS filter?                     |
| a) lowercase                                  | b) orderby   |
| c) Email                                      | d) currency  |
| 14) Who is known as                           | the father of AngularJS?                                   |
| a) Brad Green                                 | b) Misko Hevery  |
| c) Adam Abrons                                | d) Mike Adams  |
| 15) Which of the foll controls to application | owing directive is used to bind the value of HTML on data? |
| a) ng-app                                     | b) ng-init   |
| c) ng-model                                   | d) ng-hide   |
|   |  |

16) Which of the following community Angular JS belong to?

a) Twitter

b) Facebook

c) Google

d) Microsoft





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 - Odd Semester

| 17) How would you retrieve a list of                             | items from a server's URL?          |  |  |  |
|--|-------------------------------------|--|--|--|
| a) create a URL transaction                                      | b) Use the HTTP get method          |  |  |  |
| c) Create a get SQL statement                                    | d) Use an HTTP package              |  |  |  |
| 18) Which of the following is not but                            | ilt-in pipe in Angular?             |  |  |  |
| a) DatePipe  | b)Currency Pipe                     |  |  |  |
| c) Data Pipe   | d) Percent Pipe                     |  |  |  |
| 19) AngularJS is perfect for?                                    |                                     |  |  |  |
| a) MPAs  | b) DPAs                             |  |  |  |
| c) SPAs  | d) CPAs                             |  |  |  |
| 20) On which of the Architectural pa                             | attern AngularJS is based?          |  |  |  |
| a) MVC Architecture pattern                                      | b) Observer Pattern                 |  |  |  |
| c) Decorator pattern   | d) MVVM Architectural pattern       |  |  |  |
| 21) Which of the following statement                             | is true about the lowercase filter? |  |  |  |
| a) The lowercase filter is a function th                         | at takes text as input.             |  |  |  |
| b) The lowercase filter converts a text                          | to lower case text.                 |  |  |  |
| c) All Of above  | d) None of above                    |  |  |  |
| 22) Which of the following statement is true about \$dirty flag? |                                     |  |  |  |
| a) \$dirty flag is used to state that the f                      | orm has invalid data                |  |  |  |
| b) \$dirty flag is used to state that value                      | e has been changed                  |  |  |  |
| c) All of above  | d) None of above                    |  |  |  |



#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



## Department of Computer Science & Engineering

### Academic Year 2022-2023 - Odd Semester

| 23) | Which | of the | following | syntax | is used | to create a | module in | AngularJS3 |
|-----|-------|--------|-----------|--------|---------|-------------|-----------|------------|
|-----|-------|--------|-----------|--------|---------|-------------|-----------|------------|

- a) var myModule= new Module ();
- b) var myModule= angular. Module();

c) module("app", []);

- d) None of the above
- 24) Which of the following statement is true in the case of \$routeProvider?
- a) It is a module.

b) It is a service.

c) It is a component.

- d) None of the above.
- 25) Who is known as the father of AngularJS?
- a) Brad Green

b) Adam Abrons

c) Misko Hevery

d) Mike Adams



Approved by AICTE, NewDellni & Affiliated to Anna University, Chemnai
NAAC Accredited, 2(F) Status Institution by UGC

## Department of Computer Science & Engineering

#### Academic Year 2022-2023 - Odd Semester

#### **Value Added Course**

Angular JS

#### ANSWER KEY

| 1 | C | 6  | D | 11 | В | 16 | С | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | D | 7  | A | 12 | В | 17 | A | 22 | В |
| 3 | A | 8  | С | 13 | C | 18 | С | 23 | С |
| 4 | С | 9  | A | 14 | В | 19 | С | 24 | В |
| 5 | Α | 10 | C | 15 | С | 20 | D | 25 | C |

VAC Coordinator

100:





Medurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellin & Affiliated to Anna University, Chemnai NAAC Accordited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

| Academic | Year | 2022-2023 - | <b>Odd Semester</b> |
|----------|------|-------------|---------------------|
|----------|------|-------------|---------------------|

| Name of the Student: P.R. Gokul Nath Year/Sem: 1 | 1/ | 3 |
|--|----|---|
|--|----|---|

AU Register Number: 811221104006

Value Added Course on "Angular JS"

#### MCQ QUESTIONS (25X4 = 100 Marks)

| 1) Which of the following state | ement is c  | orrect for AngularJS?            |
|---------------------------------|-------------|----------------------------------|
| a) AngularJS is an HTML frame   | work        | b) AngularJS is a Java framework |
| eNAngularJS is a JavaScript fra | mework      | d) AngularJS is a SQL framework  |
| 2) On which of the Architectus  | ral patteri | AngularJS is based?              |
| a) Observer Pattern             | b) I        | Decorator pattern                |
| c) MVC Architecture pattern     | _d)N        | MVVM Architectural pattern       |
| 3) Angular is perfect for?      |             |                                  |
| USPAS                           |             | b) MDA                           |

- SPAS
- c) DPAs d) CPAs
- 4) Which of the following directive is used to bind the application data to the HTML view in AngularJS?
- a) ng-app directive b) ng-model directive
- c)\ng-bind directive d) ng-init directive
- 5) Which of the following syntax is correct for applying multiple filters in AngularJS?

| a) {{ expression   filter1   filter2   }} | b){{ expression   ffitter1}   |
|---|-------------------------------|
| c) {{ expression - {filter1} - {filter2}  | }}d){{ {filter1}   {filter2}} |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NowDelhi & Affiliated to Anna University, Chennal
NAAC Accredited, 2(F) Status Institution by UGC



### Department of Computer Science & Engineering

#### Academic Year 2022-2023 - Odd Semester

- 6) Which of the following is an advantage of AngularJS?
- a) AngularJS code is unit testable reusable components.

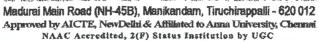
- b) AngularJS provides
- AngularJS uses dependency injection and makes use of separation of concerns.d) All of the above
  - 7) Which of the following statement is true about \$dirty flag?
  - a) Spirty flag is used to state that value has been changed
  - b) \$dirty flag is used to state that the form has invalid data.
  - c) Both of the above.

- d) None of the above.
- 8) What will be the output for the following code?
- 1. <div ng-app=""" ng-init=""points=[1.15.19.2.40]"">
- 2. p>The output is  $\{\{points[2]\}\}$
- 3. </div>
- a) The output is 1
- b) The output is 15
- ch The output is 19
- d) The output is 2
- 9) What is the use of Angular Controllers in the application?
- a) Angular controllers are used for controlling the data.
- Angular controllers are used for displaying the data.
- C) Both of the above are correct.
- d) None of the above is correct.
- 10) Which of the following syntax is used to create a module in AngularJS?
- a) Var myModule= angular. Module(); b) var myModule= new Module(),
- c) Module ("app", []);

d) none of the above



### COLLEGE OF ENGINEERING





### **Department of Computer Science & Engineering**

| Acad  | emic Year 2022-2023 – Odd Semester                      |
|---|---|
| 11) Which of the folloin AngularJS?               | owing is used to share data between controller and view |
| a) using Model                                    | b) using services                                       |
| c) Using factory                                  | d) using \$scope  |
| 12) Which of the followards?                      | wing statement specifies the data-binding in            |
| a) Synchronization of                             | data between the model and view components.             |
| b)/Synchronization of                             | data between the model and controller components.       |
| c) Synchronization of                             | data between the controller and view components.        |
| d) None of the above                              |   |
| 13) Which of the follo                            | wing is not a valid AngularJS filter?                   |
| a) lowercase                                      | b) orderby  |
| c) Email  | currency  |
| 14) Who is known as t                             | he father of AngularJS?                                 |
| a) Brad Green                                     | by Misko Hevery   |
| c) Adam Abrons                                    | d) Mike Adams   |
| 15) Which of the followed controls to application | wing directive is used to bind the value of HTML data?  |
| a) ng-app   | b) ng-init  |
| c) ng-model                                       | d) ng-hide  |
| 16) Which of the follow                           | ving community Angular J8 belong to?                    |
| a) Twitter  | b) Facebook   |
| c) Google   | d) Microsoft  |



# <u>Indra Ganesan</u>

#### COLLEGE OF ENGINEERING





### **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 - Odd Semester

| 17) How would you retrieve a lis        | st of items from a server's URL?        |
|---|---|
| a create a URL transaction              | b) Use the HTTP get method              |
| c) Create a get SQL statement           | d) Use an HTTi <sup>)</sup> package     |
| 18) Which of the following is no        | t built-in pipe in Angular?             |
| a) DatePipe                             | b)Currency Pipe                         |
| Data Pipe                               | d) Perceut Pipe                         |
| 19) AngularJS is perfect for?           |   |
| a) MPAs                                 | b) DPAs                                 |
| SPAs                                    | d) CPAs                                 |
| 20) On which of the Architectura        | al pattern AngularJS is based?          |
| a) MVC Architecture pattern             | b) Observer Pattern                     |
| c) Decorator pattern                    | _d) MVVM Architectural pattern          |
| 21) Which of the following states       | ment is true about the lowercase filter |
| a) The lowercase filter is a function   | on that takes text as input             |
| b. The lowercase filter converts a      | text to lower case text.                |
| c) All Of above                         | d) None of above                        |
| 22) Which of the following state        | ment is true about \$dirty flag?        |
| a) \$dirty flag is used to state that t | the form has invalid data               |
|   |   |

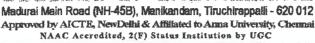
d) None of above

\$dirty flag is used to state that value has been shanged

c) All of above



#### COLLEGE OF ENGINEERING





#### **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 - Odd Semester

| 23) | Which of | the | following | syntax | is | used | to | create a | module | in | AngularJS? |
|-----|----------|-----|-----------|--------|----|------|----|----------|--------|----|------------|
|-----|----------|-----|-----------|--------|----|------|----|----------|--------|----|------------|

- a) var myModule= new Module ();
- b) var myModule= angular. Module();

c) module("app", []);

- d) None of the above
- 24) Which of the following statement is true in the case of \$routeProvider?
- a) It is a module.

b) It is a service.

c) It is a component.

- d) None of the above.
- 25) Who is known as the father of AngularJS?
- a) Brad Green

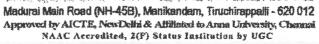
b) Adam Abrons

c) Misko Hevery

d) Mike Adams



### COLLEGE OF ENGINEERING





### Department of Computer Science & Engineering

Academic Year 2022-2023 - Odd Semester

| c) {{ expression - {filter1} - {filter2} }} d){{ {filter1}   {filter2}/   | Academic Year 202  | 2-2025 – Odd Semester                      |
|---|--|--|
| Value Added Course on "Angular JS"  MCO OUESTIONS (25X4 = 100 Marks)  1) Which of the following statement is correct for AngularJS?  a) AngularJS is an HTML framework b) AngularJS is a Java framework  ② AngularJS is a JavaScript framework d) AngularJS is a SQL framework  2) On which of the Architectural pattern AngularJS is based?  a) Observer Pattern b) Decorator pattern  c) MVC Architecture pattern d) MVVM Architectural pattern  3) Angular is perfect for?  (a) SPAs b) MPAs  c) DPAs d) CPAs  1) Which of the following directive is used to bind the application data to the HTML view in AngularJS?  a) ng-app directive b) ng-model directive  c) ng-bind directive d) ng-init directive  (5) Which of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }} b) {{ expression   filter1   filter2   }}  c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2} / }} | Name of the Student: Aun Ku  | mau. M Year/Sem: 11 III Agos               |
| MCO OUESTIONS (25X4 = 100 Marks)  1) Which of the following statement is correct for AngularJS?  a) AngularJS is an HTML framework  (a) AngularJS is a JavaScript framework  (b) AngularJS is a SQL framework  2) On which of the Architectural pattern AngularJS is based?  a) Observer Pattern  b) Decorator pattern  c) MVC Architecture pattern  d) MVVM Architectural pattern  3) Angular is perfect for?  (a) SPAs  b) MPAs  c) DPAs  d) CPAs  1) Which of the following directive is used to bind the application data to the HTML view in AngularJS?  a) ng-app directive  b) ng-model directive  c) ng-bind directive  d) ng-init directive  5) Which of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }}  c) {{ expression   filter1   filter2   }}  c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2}   }}  | AU Register Number: 81122121   | 13004                                      |
| a) AngularJS is an HTML framework b) AngularJS is a Java framework  (c) AngularJS is a JavaScript framework d) AngularJS is a SQL framework  2) On which of the Architectural pattern AngularJS is based?  a) Observer Pattern b) Decorator pattern  c) MVC Architecture pattern d) MVVM Architectural pattern  3) Angular is perfect for?  (a) SPAs b) MPAs  c) DPAs d) CPAs  1) Which of the following directive is used to bind the application data to the HTML view in AngularJS?  a) ng-app directive b) ng-model directive  c) ng-bind directive d) ng-init directive  5) Which of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }} b) {{ expression   filter1}   filter2   }}  c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   filter2   }}  | Value Added Co   | ourse on "Angular JS"                      |
| a) AngularJS is an HTML framework  (a) AngularJS is a JavaScript framework  (b) AngularJS is a Java framework  (c) AngularJS is a JavaScript framework  (d) AngularJS is a SQL framework  (e) AngularJS is a SQL framework  (e) On which of the Architectural pattern AngularJS is based?  (e) Observer Pattern  (f) MVVM Architectural pattern  (g) MVVM Architectural pattern  (h) MVVM Architectural pattern  (h) MPAS  (h) MPAS  (h) MPAS  (h) Which of the following directive is used to bind the application data to the HTML view in AngularJS?  (h) Mylor of the following syntax is correct for applying multiple filters in AngularJS?  (g) Which of the following syntax is correct for applying multiple filters in AngularJS?  (a) {{ expression   filter1   filter2   }}  (b) {{ expression   filter1} - {filter2} }}  | MCQ QUESTIO  | NS (25X4 = 100 Marks)                      |
| © AngularJS is a JavaScript framework d) AngularJS is a SQL framework  2) On which of the Architectural pattern AngularJS is based?  a) Observer Pattern b) Decorator pattern  c) MVC Architecture pattern d) MVVM Architectural pattern  3) Angular is perfect for?  a) SPAs b) MPAs  c) DPAs d) CPAs  b) MPAs  c) DPAs d) CPAs  l) Which of the following directive is used to bind the application data to the HTML view in AngularJS?  a) ng-app directive b) ng-model directive  c) ng-bind directive d) ng-init directive  8) Which of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }} b) {{ expression   filter1   filter2   }}  c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2}   }}  | 1) Which of the following statement                                  | is correct for AngularJS?                  |
| a) Observer Pattern b) Decorator pattern c) MVC Architecture pattern d) MVVM Architectural pattern 3) Angular is perfect for? a) SPAs b) MPAs c) DPAs b) MPAs d) CPAs d) CPAs d) Which of the following directive is used to bind the application data to the HTML view in AngularJS? a) ng-app directive b) ng-model directive c) ng-bind directive d) ng-init directive b) Mich of the following syntax is correct for applying multiple filters in AngularJS? a) {{ expression   filter1   filter2   }} b) {{ expression   filter1   filter2   }} c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2}   }}  | a) AngularJS is an HTML framework                                    | b) AngularJS is a Java framework           |
| a) Observer Pattern b) Decorator pattern c) MVC Architecture pattern d) MVVM Architectural pattern 3) Angular is perfect for? a) SPAs b) MPAs c) DPAs d) CPAs d) CPAs l) Which of the following directive is used to bind the application data to the HTML view in AngularJS? a) ng-app directive b) ng-model directive c) ng-bind directive d) ng-init directive f) Which of the following syntax is correct for applying multiple filters in AngularJS? a) {{ expression   filter1   filter2   }} b) {{ expression   filter1   filter2   }} c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2}   }}   | © AngularJS is a JavaScript framewo                                  | rk d) AngularJS is a SQL framework         |
| c) MVC Architecture pattern  3) Angular is perfect for?  a) SPAs  b) MPAs  c) DPAs  d) CPAs  d) CPAs  d) Which of the following directive is used to bind the application data to the HTML view in AngularJS?  a) ng-app directive  b) ng-model directive  c) ng-bind directive  d) ng-init directive  5) Which of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }}  c) {{ expression - {filter1} - {filter2} }} d){{ filter1}   {filter2} / }}   | 2) On which of the Architectural pa                                  | ttern AngularJS is based?                  |
| 3) Angular is perfect for?  (a) SPAs (b) MPAs (c) DPAs (d) CPAs (d) CPAs (e) Which of the following directive is used to bind the application data to the HTML view in AngularJS? (a) ng-app directive (b) ng-model directive (c) ng-bind directive (d) ng-init directive (e) Which of the following syntax is correct for applying multiple filters in AngularJS?  (a) {{ expression   filter1   filter2   }} (b) {{ expression   filter1   filter2   }} (c) {{ expression - {filter1} - {filter2} }}  | a) Observer Pattern  | b) Decorator pattern                       |
| b) MPAs c) DPAs d) CPAs d) CPAs  A) Which of the following directive is used to bind the application data to the HTML view in AngularJS? a) ng-app directive b) ng-model directive c) ng-bind directive d) ng-init directive  5) Which of the following syntax is correct for applying multiple filters in AngularJS? a) {{ expression   filter1   filter2   }} b) {{ expression   filter1   filter2   }} c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2} / }  | c) MVC Architecture pattern  | MVVM Architectural pattern                 |
| d) CPAs  Dyhich of the following directive is used to bind the application data to the HTML view in AngularJS?  a) ng-app directive  b) ng-model directive  c) ng-bind directive  d) ng-init directive  Nhich of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }}  b) {{ expression   filter1   filter2   }}  c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2} / }  | 3) Angular is perfect for?   |  |
| Which of the following directive is used to bind the application data to the HTML view in AngularJS?  a) ng-app directive  b) ng-model directive  c) ng-bind directive  d) ng-init directive  5) Which of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }}  b) {{ expression   filter1   filter2   }}  c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2} / }   | a) SPAs  | b) MPAs                                    |
| HTML view in AngularJS?  a) ng-app directive  b) ng-model directive  c) ng-bind directive  d) ng-init directive  5) Which of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }}  b) {{ expression   {filter1}   {filter2} }}  c) {{ expression - {filter1} - {filter2} }}   | c) DPAs  | d) CPAs                                    |
| c) ng-bind directive  d) ng-init directive  5) Which of the following syntax is correct for applying multiple filters in AngularJS?  a) {{ expression   filter1   filter2   }} b) {{ expression   filter1}   filter2   }}  c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2}   }   |  | s used to bind the application data to the |
| (a) {{ expression   filter1   filter2   }} b) {{ expression   filter1   filter2   }} c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2}   }}  | a) ng-app directive  | b) ng-model directive                      |
| AugularJS?  a) {{ expression   filter1   filter2   }} b) {{ expression   {filter1}   {filter2}   }}  c) {{ expression - {filter1} - {filter2} }} d) {{ filter1}   {filter2}   }   | c) ng-bind directive   | d) ng-init directive                       |
| {filter2}   }} c) {{ expression - {filter1} - {filter2} }} d){{ {filter1}   {filter2}/  |  | orrect for applying multiple filters in    |
| c) {{ expression - {filter1} - {filter2} }} d){{ {filter1}   {filter2}/   | a) {{ expression   filter1   filter2   }<br>{filter2}   }}           | <pre>b){{ expression   {filter1}  </pre>   |
| expression; ;   | <pre>c) {{ expression - {filter1} - {filter2}<br/>expression}}</pre> | }} d){{ {filter1}   {filter2}              |







| Departm                                       | ent of Computer Science & Engineering                     |
|---|---|
| Acae  | lemic Year 2022-2023 – Odd Semester                       |
| 11) Which of the folion AngularJS?            | owing is used to share data between controller and view   |
| a) using Model                                | b) using services   |
| c) Using factory                              | d) using \$scope  |
| 12) Which of the foll AngularJS?              | owing statement specifies the data-binding in             |
| a) Synchronization of                         | data between the model and view components.               |
| (b) Synchronization of                        | data between the model and controller components.         |
| c) Synchronization of                         | data between the controller and view components.          |
| d) None of the above                          |   |
| 13) Which of the foll                         | owing is not a valid AngularJS filter?                    |
| a) lowercase                                  | b) orderby  |
| © Email                                       | d) currency   |
| 14) Who is known as                           | the father of AngularJS?                                  |
| a) Brad Green                                 | b Misko Hevery  |
| c) Adam Abrons                                | d) Mike Adams   |
| 15) Which of the follocontrols to application | owing directive is used to bind the value of HTML n data? |
| a) ng-app                                     | b) ng-init  |
| c)ng-model                                    | d) ng-hide  |
| Which of the follo                            | wing community Angular JS belong to?                      |

a) Twitter

b) Facebook

c) Google

d))Microsoft





Madurai Mein Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemon NAAC Accredited, 2(F) Status Institution by UGC

#### **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 - Odd Semester

| JS? |
|-----|
|     |

- a) var myModule= new Module ();
- b) var myModule= angular. Module();

c) module("app", []);

d) None of the above

### 24) Which of the following statement is true in the case of SrouteProvider?

a) It is a module.

It is a service.

c) It is a component.

d) None of the above.

#### 25) Who is known as the father of AngularJS?

a) Brad Green

b) Adam Abrons

Misko Hevery

d) Mike Adams

Dr. G. Balakrishnan, M.E., Ph.D., IG Valley, Madurai Main Road Manikandam, Trichy-520 012





Madurai Main Road (NH-45B), Manikandern, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

| Name | of the | Student: |
|------|--------|----------|
| Rame | OI HIC | Studente |

Year/Sem:

AU Register Number:

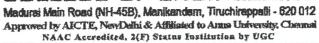
|  | Value Added Course  |                          |                  |                                   |  |  |  |  |  |  |
|--|---|--------------------------|------------------|-----------------------------------|--|--|--|--|--|--|
|  | "Power Grid Protection"   |                          |                  |                                   |  |  |  |  |  |  |
|  | M   | ULTIPLE CHOICE O         | UESTIONS (2      | 5X1 = 25 Marks)                   |  |  |  |  |  |  |
| 1.   | Which of the following circuit breakers has the lowest operating voltage? |                          |                  |                                   |  |  |  |  |  |  |
|  | (a) SF6 gas.  | (b) Air-break.           | c) Air-blast.    | (d) Minimum oil.                  |  |  |  |  |  |  |
| 2.   | Which of the follo  | owing circuit breakers   | produce the lea  | st arc energy?                    |  |  |  |  |  |  |
|  | (a) Plain oil.  | (b) Minimum oil.         | (c) Air-blast.   | (d) Air break.                    |  |  |  |  |  |  |
| 3.   | Which of the follo  | owing circuit breakers   | has high reliabi | lity and negligible maintenance?  |  |  |  |  |  |  |
|  | (a) Air-blast.  | (b) SF6 (c) Oil          | . (d) Va         | cuum.                             |  |  |  |  |  |  |
| 4. V   | Vhich of the follow   | ing circuit breakers tal | ke minimum tin   | ne in installation?               |  |  |  |  |  |  |
|  | (a) Air-blast.  | (b) Minimum oil.         | (c) Bulk oil.    | (d) SF6                           |  |  |  |  |  |  |
| 5. V   | Vhere voltages are  | high and current to be   | interrupted is   | ow, the circuit breaker preferred |  |  |  |  |  |  |
| is   | one.  |                          |                  |                                   |  |  |  |  |  |  |
|  | (a) air-break   | (b) vacuum               | (c) oil          | (d) air-blast                     |  |  |  |  |  |  |
| 6. For rural electrification in a country like India with complex network, the circuit breaker |   |                          |                  |                                   |  |  |  |  |  |  |
|  | ferred isone  |                          |                  |                                   |  |  |  |  |  |  |
|  | (a) air-break   | (b) oil                  | (c) vacuum       | (d) minimum oil                   |  |  |  |  |  |  |
|  |   |                          | ./               |                                   |  |  |  |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.







| 7. The most suitable circuit breaker for short line fault without switching resistor isone.   |                                       |   |                         |                    |  |  |  |  |
|---|---------------------------------------|---|-------------------------|--------------------|--|--|--|--|
| (a) Minimum oil   | (b) air-blast                         | (c) SF6                                 | (d) air-break           |                    |  |  |  |  |
| 8. The rating of a circ   | cuit breaker is usually o             | letermined on t                         | he basis of             | fault.             |  |  |  |  |
| (a) Symmetrical (c) single line to groun  | (b) line to line<br>d (d) double line |   |                         |                    |  |  |  |  |
| 9. The transient phen   | omenon lasts in a powe                | er system for a p                       | eriod ranging fr        | om                 |  |  |  |  |
| (a) Few ms to 1 s   | (b) 1 s to 2 s (c) 2 s                | to 3 s. (d) gre                         | eater than 3 s.         |                    |  |  |  |  |
| 10. Circuit breakers u  | isually operate under                 |   |                         |                    |  |  |  |  |
| (a) Steady short-circuit<br>(c) Transient state of sl   |                                       | (b) Sub-transie<br>(d) None of the      | ent state of short-cese | circuit current.   |  |  |  |  |
| 11. The restriking vol  | tage is measured in                   |   |                         |                    |  |  |  |  |
| (a) RMS value.  | (b) Peak value.                       | (c) Instantaneo                         | us value.               | (d) Average value. |  |  |  |  |
| 12. The making and b  | oreaking currents of 3-p              | ohase ac circuit                        | breakers in pow         | er system are      |  |  |  |  |
| (a) rms value, rms value.   | * *                                   | ous value, rms va<br>ous value, instant |                         |                    |  |  |  |  |
| 13. The making to breaking current ratio for an EHV circuit breaker is  |                                       |   |                         |                    |  |  |  |  |
| (a) More than 1.  | (b) Equal to 1.                       | (c) Less than 1.                        | (d) A ne                | egative number.    |  |  |  |  |
| 14. The making capacity of a circuit breaker is   |                                       |   |                         |                    |  |  |  |  |
| <ul> <li>(a) Less than the asymmetrical breaking capacity of the breaker.</li> <li>(b) Greater than the asymmetrical breaking capacity of the breaker.</li> <li>(c) Equal to the symmetrical breaking capacity of the breaker.</li> <li>(d) Equal to the asymmetrical breaking capacity.</li> </ul> |                                       |   |                         |                    |  |  |  |  |





Madurei Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012
Appured by AICTE, NewDelhi & Affiliated to Anna University, Chemosi
NAAC Accredited, 2(F) States Institution by UGC

| 15. | Which | of t | he f | ollowing | statements | is | not | correct? |
|-----|-------|------|------|----------|------------|----|-----|----------|
|-----|-------|------|------|----------|------------|----|-----|----------|

- (a) Arc chutes are used in air break circuit breakers.
- (b) Air-blast circuit breakers are employed for high voltage traction system.
- (c) Resistance switching is employed for overcoming current chopping.
- (d) Linear resistors are used in resistance switching.
- 16. Capacitor switching in 33 kV power systems is better done with......circuit breakers.
- (a) air-blast
- (b) minimum oil
- (c) vacuum
- 17. The probable cause(s) for fall in insulation resistance between phase terminal and earthed frame could be
- (a) Dirty insulation surface.
- (b) Ingress of moisture.
- (c) Sticking of carbon or copper particles to the internal surface.
- (d) all of the above.
- 18. The probable cause(s) for failure of a circuit breaker on electrical compound could be
- (a) Trip circuit open.
- (b) Trip latch defective.
- (c) Spring defective.
- (d) Any of the above.

#### 19. An isolator is installed

- (a) To isolate one portion of the circuit from another.
- (b) Usually on both sides of a circuit breaker.
- (c) As a substitute for a circuit breaker.
- (d) Both (a) and (b).
- 20. Current rating is not necessary in case of
- (a) Isolators.
- (b) Circuit breakers.
- (c) Load break switches.
- (d) Circuit breakers and load break switches.

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 €12.



# EGE OF ENGINEERING



Medurei Mein Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemni NAAC Accredited, 2(F) Status Institution by UGC

| 31  | A   | 22   | isola  | tor    | ie  | m   | 69 | ní | f    | or   |
|-----|-----|------|--------|--------|-----|-----|----|----|------|------|
| Z.1 | . A | . 88 | 184112 | CREBE. | 135 | 111 | Ca | ш  | - 41 | UFB. |

(a) Breaking abnormal current.

- (b) Making under fault condition.
- (c) Breaking the circuit under no-load condition.
- (d) None of the above.
- 22. Isolators used in transmission lines are capable of breaking:
- (a) Fault current.
- (b) No current.
- (c) Charging current.
- (d) All the above
- 23. For a fault at the terminals of synchronous generator, the fault current is maximum for a
- (a) 3-phase fault.
- (b) 3-phase to ground fault.
- (c) line-to-ground fault.
- (d) line-to-line fault.
- 24. If all the sequence voltages at the fault point in a power system are equal, then the fault is a
- (a) three-phase fault.
- (b) line-to ground fault.
- (c) line-to-line fault.
- (d) double-line-to ground fault.
- 25. The material used in liquid fuses is
- (a) SF6
- (b) distilled water.
- (c) Carbon tetra chloride.
- (d) Transformer oil.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandern, Tiruchirappalii - 620 012 Approved by AICTE, NowDellii & Affiliated to Anna University, Chemnic NAAC Accredited, 2(F) Status Institution by UGC



# Value Added Course

"Power Grid Protection"

### Answer Kev

| 1 | b | 6  | c | 11 | ь | 16 | C | 21 | c |
|---|---|----|---|----|---|----|---|----|---|
| 2 | c | 7  | c | 12 | d | 17 | d | 22 | c |
| 3 | b | 8  | a | 13 | a | 18 | d | 23 | c |
| 4 | d | 9  | a | 14 | b | 19 | d | 24 | đ |
| 5 | ь | 10 | b | 15 | d | 20 | a | 25 | c |

Schu Jerife VACCOORDINATOR

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# COLLEGE OF ENGINEERING



| INSTITUTIONS | Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 0 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chen NAAC Accredited, 2(F) Status Institution by UGC |
|--------------|---|
|              |   |

Name of the Student: M. Baxath

Year/Sem: 14/VII

|  | He of the progent. |                         |                     |                          | 1 2       |  |
|--|--------------------|-------------------------|---------------------|--------------------------|-----------|--|
| ΑU   | Register Number    | : 8112191056            | 002                 |                          | ( 7       |  |
|  |                    | Value A                 | Added Cour          | se                       |           |  |
|  |                    | "Power                  | Grid Protection     | n"                       |           |  |
|  | ]                  | MULTIPLE CHOICE         | QUESTIONS (25       | X1 = 25  Marks           |           |  |
| 1.   | Which of the fol   | lowing circuit breakers | s has the lowest op | oerating voltage?        |           |  |
|  | (a) SF6 gas.       | (b) Air-break.          | c) Air-blast.       | (d) Minimum oil.         |           |  |
| 2.   | Which of the fo    | llowing circuit breaker | s produce the leas  | t arc energy?            |           |  |
|  | (a) Plain oil.     | (b) Minimum oil.        | (c) Air-blast.      | (d) Air break.           |           |  |
| 3.   | Which of the fo    | llowing circuit breaker | s has high reliabil | ity and negligible main  | tenance?  |  |
|  | (a) Air-blast.     | (b) 9F6 (c) C           | oil. (d) Vac        | cuum.                    |           |  |
| 4.   | Which of the follo | owing circuit breakers  | take minimum tin    | ne in installation?      |           |  |
|  | (a) Air-blast.     | (b) Minimum oil.        | Bulk oil.           |                          |           |  |
| 5.   | Where voltages a   | re high and current to  | be interrupted is   | low, the circuit breaker | preferred |  |
|  | one.               |                         |                     |                          |           |  |
|  | (a) air-break      | (b) acuum               | (c) oil             | (d) air-blast            |           |  |
| 6. For rural electrification in a country like India with complex network, the circuit breaker |                    |                         |                     |                          |           |  |
|  | referred is        |                         |                     |                          |           |  |
| P  | (a) air-break      | (B) iii                 | (c) vacuum          | (d) minimum oil          |           |  |
|  |                    |                         | 1 CP                |                          |           |  |
|  |                    | Du C. Dala              | lantalian and semi- | n1                       |           |  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



(d) Equal to the asymmetrical breaking capacity.

# Indra Ganesan

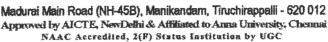


Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Enstitution by EGC

| 7. The most suitab   | le circuit breaker for                     | r short line fault with          | out switchin   | g resistor isone.   |  |  |  |
|--|--|----------------------------------|----------------|---------------------|--|--|--|
| (a) Minimum oil  | (b) air-blast                              | (G) \$F6                         | (d) air-brea   | k                   |  |  |  |
| 8. The rating of a c   | ircuit breaker is usu                      | ally determined on the           | he basis of    | fault.              |  |  |  |
| (a) Symmetrical<br>(c) single line to gro  | (b) line to                                | o line<br>le line to ground      |                | ¥                   |  |  |  |
| 9. The transient ph  | enomenon lasts in a                        | power system for a p             | eriod rangin   | g from              |  |  |  |
| (a) Few ms to 1 s  | (b) 1 s to 2 s (c)                         | c) 2 s to 3 s. (d) gre           | ater than 3 s. |                     |  |  |  |
| 10. Circuit breaker  | 10. Circuit breakers usually operate under |                                  |                |                     |  |  |  |
| (a) Steady short-circle (c) Transient state of   | uits current. short-circuit current.       | (b) Sub-transier (d) None of the |                | rt-circuit current. |  |  |  |
| 11. The restriking v   | oltage is measured in                      | 1                                |                |                     |  |  |  |
| (a) RMS value.   | (b) Peak value.                            | (c) Instantaneou                 | ıs value.      | (d) Average value.  |  |  |  |
| 12. The making and breaking currents of 3-phase ac circuit breakers in power system are respectively in what form?         |  |                                  |                |                     |  |  |  |
| (a) rms value, rms value. (b) Instantaneous value, rms value. (c) rms value. (d) Instantaneous value, instantaneous value. |  |                                  |                |                     |  |  |  |
| 13. The making to breaking current ratio for an EHV circuit breaker is   |  |                                  |                |                     |  |  |  |
| (a) Nore than 1.   | (b) Equal to 1.                            | (c) Less than 1.                 | (d) A          | negative number.    |  |  |  |
| 14. The making capa  | city of a circuit brea                     | ker is                           |                |                     |  |  |  |
| (a) Less than the asym<br>(b) Greater than the as<br>Equal to the symmetry   | ymmetrical breaking of                     | capacity of the breaker          | r.             | D:-                 |  |  |  |



## COLLEGE OF ENGINEERING





| 15. | Which | of th | e following | statements | is | not | correct? |
|-----|-------|-------|-------------|------------|----|-----|----------|
|-----|-------|-------|-------------|------------|----|-----|----------|

- (a) Arc chutes are used in air break circuit breakers.
- (b) Air-blast circuit breakers are employed for high voltage traction system.
- (c) Resistance switching is employed for overcoming current chopping.
- (d) linear resistors are used in resistance switching.
- 16. Capacitor switching in 33 kV power systems is better done with......circuit breakers.
- (a) air-blast
- minimum oil
- (c) vacuum
- 17. The probable cause(s) for fall in insulation resistance between phase terminal and earthed frame could be
- (a) Dirty insulation surface.
- (b) Ingress of moisture.
- (c) Sticking of carbon or copper particles to the internal surface.
- dall of the above.
- 18. The probable cause(s) for failure of a circuit breaker on electrical compound could be
- (a) Trip circuit open.

(b) Trip latch defective.

(c) Spring defective.

Any of the above.

### 19. An isolator is installed

- (a) To isolate one portion of the circuit from another.
- (b) Usually on both sides of a circuit breaker.
- (c) As a substitute for a circuit breaker.
- (d) Both (a) and (b).
- 20. Current rating is not necessary in case of

(a) Isolators.

(b) Circuit breakers.

(c) Load break switches.

(d) Circuit breakers and load break switches.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chernai NAAC Accredited. 2(F) Status Institution by UGC

| NAAC Accredited, 2(F) Status Institution by UGC |  |  |  |  |
|---|--|--|--|--|
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |

| 21. An isolator is meant for  |  |   |  |  |  |  |
|---|--|---|--|--|--|--|
| (a) Breaking abnormal current.  |  | (b) Making under fault condition.         |  |  |  |  |
| (c) Breaking the circuit under no   | -load condition.                                   | (d) None of the above.                    |  |  |  |  |
| 22. Isolators used in transmission lines are capable of breaking:   |  |   |  |  |  |  |
| (a) Fault current. (b   | ) No current.                                      |   |  |  |  |  |
| (c) Charging current. (d  | ) All the above                                    |   |  |  |  |  |
| 23. For a fault at the terminals of   | f synchronous generato                             | r, the fault current is maximum for a     |  |  |  |  |
| 7   | ) 3-phase to ground fault<br>) line-to-line fault. |   |  |  |  |  |
| 24. If all the sequence voltages at   | the fault point in a pov                           | ver system are equal, then the fault is a |  |  |  |  |
| (a) three-phase fault. (b) line-to ground fault. (c) line-to-line fault. (d) double-line-to ground fault. |  |   |  |  |  |  |
| 25. The material used in liquid fuses is  |  |   |  |  |  |  |
| (a) SF6 (b) distilled water.  | (c) Parbon tetra ch                                | loride. (d) Transformer oil.              |  |  |  |  |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemai NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student: HARIHARANE

Year/Sem: II / III

AU Register Number: 811 2 21105012

|      |                     | <u>Value</u>             | Added Cou           | rse                  | 1/25           |
|------|---------------------|--------------------------|---------------------|----------------------|----------------|
|      |                     | "Power                   | r Grid Protecti     | on"                  |                |
|      |                     | MULTIPLE CHOICE          | QUESTIONS (2        | 25X1 = 25 Marks)     |                |
| 1.   | Which of the fo     | ollowing circuit breaker | rs has the lowest o | operating voltage?   |                |
|      | (a) SF6 gas.        | (b) Air-break.           | c) Air-blast.       | (d) Minimum oil.     |                |
| 2.   | Which of the fo     | llowing circuit breaker  | rs produce the lea  | st arc energy?       |                |
|      | (a) Plain oil.      | (b) Minimum oil.         | Air-blast.          | (d) Air br           | eak.           |
| 3.   | Which of the fo     | llowing circuit breaker  | s has high reliabi  | lity and negligible  | maintenance?   |
|      | (a) Air-blast.      | (c) C                    | Oil. (d) Va         | cuum.                |                |
| 4. \ | Which of the follo  | owing circuit breakers t | ake minimum tin     | ne in installation?  |                |
|      | (a) Air-blast.      | (b) Minimum oil.         | Bulk oil.           | (d) SF6              |                |
| 5. V | Where voltages ar   | re high and current to b | oe interrupted is   | low, the circuit bre | aker preferred |
| is   | one.                | /                        |                     |                      |                |
|      | (a) air-break       | (6) vacuum               | (c) oil             | (d) air-bla          | st             |
| 6. I | For rural electrifi | cation in a country like | India with comp     | lex network, the ci  | rcuit breaker  |
| pre  | ferred iso          | ne.                      |                     |                      |                |
|      | (a) air-break       | (b) oil                  | Vacuum              | (d) minimum oil      |                |
|      |                     | 10:1                     | /                   |                      |                |



(d) Equal to the asymmetrical breaking capacity.





| 7. The most suitable circuit breaker for short line fault without switching resistor isone.   |  |  |  |  |  |
|---|--|--|--|--|--|
| (a) Minimum oil (b) air-blast (c) SF6 (d) air-break   |  |  |  |  |  |
| 8. The rating of a circuit breaker is usually determined on the basis offault.  |  |  |  |  |  |
| (a) Symmetrical (b) line to line (c) single line to ground (b) line to line (c) double line to ground   |  |  |  |  |  |
| 9. The transient phenomenon lasts in a power system for a period ranging from   |  |  |  |  |  |
| Few ms to 1 s (b) 1 s to 2 s (c) 2 s to 3 s. (d) greater than 3 s.  |  |  |  |  |  |
| 10. Circuit breakers usually operate under  |  |  |  |  |  |
| <ul> <li>(a) Steady short-circuits current.</li> <li>(b) Sub-transient state of short-circuit current.</li> <li>(c) Transient state of short-circuit current.</li> <li>(d) None of these</li> </ul> |  |  |  |  |  |
| 11. The restriking voltage is measured in   |  |  |  |  |  |
| (a) RMS value. (b) Peak value. (c) Instantaneous value. (d) Average value.  |  |  |  |  |  |
| 12. The making and breaking currents of 3-phase ac circuit breakers in power system are   |  |  |  |  |  |
| respectively in what form?  |  |  |  |  |  |
| (a) rms value, rms value. (b) Instantaneous value, rms value. (d) Instantaneous value, instantaneous value.   |  |  |  |  |  |
| 13. The making to breaking current ratio for an EHV circuit breaker is  |  |  |  |  |  |
| (a) More than 1. (b) Equal to 1. (c) Less than 1. (d) A negative number.  |  |  |  |  |  |
| 14. The making capacity of a circuit breaker is   |  |  |  |  |  |
| a) Less than the asymmetrical breaking capacity of the breaker. b) Greater than the asymmetrical breaking capacity of the breaker. c) Equal to the symmetrical breaking capacity of the breaker.    |  |  |  |  |  |



## COLLEGE OF ENGINEERI





### 15. Which of the following statements is not correct?

- (a) Arc chutes are used in air break circuit breakers.
- (b) Air-blast circuit breakers are employed for high voltage traction system.
- (c) Resistance switching is employed for overcoming current chopping.
- (d) Linear resistors are used in resistance switching.
- 16. Capacitor switching in 33 kV power systems is better done with......circuit breakers.
- (a) air-blast
- (b) minimum oil



## 17. The probable cause(s) for fall in insulation resistance between phase terminal and earthed frame could be

- (a) Dirty insulation surface.
- (b) Ingress of moisture.
- (c) Sticking of carbon or copper particles to the internal surface.
- (a) all of the above.
- 18. The probable cause(s) for failure of a circuit breaker on electrical compound could be
- (a) Trip circuit open.
- (b) Trip latch defective.
- Spring defective.
- (d) Any of the above.

### 19. An isolator is installed

- (a) To isolate one portion of the circuit from another.
- (b) Usually on both sides of a circuit breaker.

20. Current rating is not necessary in case of

- (c) As a substitute for a circuit breaker.
- (d) Both (a) and (b).

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

(a) Isolators. c Load break switches. (b) Circuit breakers.

Manikandam, Trichy-620 012. (d) Circuit breakers and load break switches.

21. An isolator is meant for

Breaking abnormal current.

(b) Making under fault condition.

(c) Breaking the circuit under no-load condition.

(d) None of the above.







| 22. | <b>Isolators</b> | used in | n transmission         | lines are   | capable of | breaking:    |
|-----|------------------|---------|------------------------|-------------|------------|--------------|
|     | 200101010        | 4044 11 | * ** ***************** | HIREOU MI C | cabante or | . vi caminz. |

(a) Fault current.

(b) No current.

(c) Charging current.

(d) All the above

23. For a fault at the terminals of synchronous generator, the fault current is maximum for a

(a) 3-phase fault.

(b) 3-phase to ground fault.

(c) ine-to-ground fault.

(d) line-to-line fault.

24. If all the sequence voltages at the fault point in a power system are equal, then the fault is a

(a) three-phase fault.

line-to ground fault.

(c) line-to-line fault.

(d) double-line-to ground fault.

25. The material used in liquid fuses is

(a) SF6

(b) distilled water.

Carbon tetra chloride.

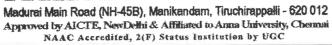
(d) Transformer oil.

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



## COLLEGE OF ENGINEERING





| Name of the Student:     | B. DIVYA               |                     | Year/Sem: 111 / V                 |
|--------------------------|------------------------|---------------------|-----------------------------------|
| AU Register Number:      | 811220,109             | 5011                |                                   |
|                          | Value A                | Added Cour          | <u>se</u>                         |
|                          | "Power                 | Grid Protection     | n"                                |
| <u>M</u>                 | ULTIPLE CHOICE         | QUESTIONS (25       | 5X1 = 25 Marks)                   |
|                          | wing circuit breakers  |                     |                                   |
| (a) SF6 gas.             | (b)Air-break.          | c) Air-blast.       | (d) Minimum oil.                  |
|                          | wing circuit breakers  |                     |                                   |
| (a) Plain oil.           | (b) Minimum oil.       | (c) Air-blast.      | (d) Air break.                    |
|                          |                        |                     | ity and negligible maintenance?   |
| (a) Air-blast.           | (c) O                  | il. (d) Vac         | uum.                              |
| 4. Which of the followi  | ng circuit breakers ta | ike minimum tim     | e in installation?                |
| (a) Air-blast.           | (b) Minimum oil.       | (c) Bulk oil. (     | (d) SF6                           |
| 5. Where voltages are    | high and current to b  | e interrupted is le | ow, the circuit breaker preferred |
| isone.                   |                        |                     |                                   |
| (a) air-break            | (b) acuum              | (c) oil             | (d) air-blast                     |
| 6. For rural electrifica | tion in a country like | India with compl    | ex network, the circuit breaker   |
| preferred isone          |                        |                     |                                   |
| (a) air-break            | (b) oil                | (c) vacuum          | (d) minimum oil                   |







7. The most suitable circuit breaker for short line fault without switching resistor is......one.



Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| (a) Minimum oil                                       | pir-blast   | (c) SF6                                 | (d) air-break            |                         |
|---|---|---|--------------------------|-------------------------|
| 8. The rating of a circ                               | cuit breaker is usually d   | letermined on tl                        | ne basis of              | .fault.                 |
| (a) Symmetrical (e) single line to groun              | (b) line to line and (d) double line  | to ground                               |                          | neer                    |
| 9. The transient phen                                 | nomenon lasts in a powe   | r system for a p                        | eriod ranging f          | rom                     |
| (a) Few ms to 1 s                                     | (b) 1 s to 2 s (c) 2 s  | to 3 s. (d) gre                         | ater than 3 s.           |                         |
| 10. Circuit breakers                                  | usually operate under   |   |                          |                         |
| (a) Steady short-circuit<br>(c) Transient state of sl |   | (b) Sub-transie (d) None of the         | nt state of short-<br>se | circuit current.        |
| 11. The restriking vol                                | ltage is measured in  |   |                          |                         |
| (a) RMS value.  | (b) Peak value.   | (c) Instantaneou                        | us value.                | (d) Average value.      |
| 12. The making and b                                  | oreaking currents of 3-p  | hase ac circuit l                       | oreakers in pow          | ver system are          |
| respectively in what f                                | orm?  |   |                          |                         |
| (a) rms value, rms value (c) rms value.               |   | us value, rms val<br>us value, instanta |                          |                         |
| 13. The making to bre                                 | eaking current ratio for  | an EHV circuit                          | breaker is               |                         |
| (a) More than 1.                                      | (b) Equal to 1.   | (c) Less than 1.                        | (d) A n                  | egative number.         |
| 14. The making capac                                  | ity of a circuit breaker i  | is                                      |                          |                         |
| (b) Greater than the asy (c) Equal to the symme       | netrical breaking capacity<br>mmetrical breaking capacity of<br>trical breaking capacity of<br>etrical breaking capacity. | city of the breaker.                    |                          | alakrishnan, M.E., Ph.D |







## 15. Which of the following statements is not correct?

- (a) Arc chutes are used in air break circuit breakers.
- (b) Air-blast circuit breakers are employed for high voltage traction system.
- (c) Resistance switching is employed for overcoming current chopping.
- (d) Linear resistors are used in resistance switching.
- 16. Capacitor switching in 33 kV power systems is better done with......circuit breakers.
- (a) air-blast
- (b) minimum oil



17. The probable cause(s) for fall in insulation resistance between phase terminal and earthed frame could be

- (a) Dirty insulation surface.
- (b) Ingress of moisture.
- (c) licking of carbon or copper particles to the internal surface.
- d all of the above.

18. The probable cause(s) for failure of a circuit breaker on electrical compound could be

- (a) Trip circuit open.
- (b) Trip latch defective.
- (c) Spring defective.
- (d) Any of the above.

19. An isolator is installed

- (a) To isolate one portion of the circuit from another.
- (b) Usually on both sides of a circuit breaker.
- (c) As a substitute for a circuit breaker.
- (d) Both (a) and (b).

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

20. Current rating is not necessary in case of

Isolators.

(b) Circuit breakers.

C Load break switches.

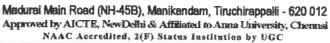
(d) Circuit breakers and load break switches.



(a) SF6

(b) distilled water.

## COLLEGE OF ENGINEERING





| 21. An isolator is meant fo                    | or  |   |
|--|---|---|
| (a) Breaking abnormal cu                       | rrent.  | (b) Making under fault condition.           |
| (c) Breaking the circuit u                     | nder no-load condition.                             | (d) None of the above.                      |
| 22. Isolators used in trans                    | mission lines are capable of                        | f breaking:                                 |
| (a) Fault current.                             | Who current.  |   |
| (c) Charging current.                          | (d) All the above                                   |   |
| 23. For a fault at the term                    | inals of synchronous genera                         | ator, the fault current is maximum for a    |
| (a) 3-phase fault. (c) ine-to-ground fault.    | (b) 3-phase to ground fa<br>(d) line-to-line fault. | ault.                                       |
| 24. If all the sequence volt                   | ages at the fault point in a p                      | power system are equal, then the fault is a |
| (a) three-phase fault. (c) line-to-line fault. | (b) line-to ground fault. (d) louble-line-to groun  | nd fault.                                   |
| 25. The material used in li                    | quid fuses is                                       |   |
|  |   |   |

(c) Carbon tetra chloride.

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

(d) Transformer oil.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Apparoad by AICTE, NewDolli & Affiliated to Annu Linivessity, Chemod
NAAC Accedited, 2(F) Status Environted by UGC.



b, output

# Value Added Course "INTRODUCTION TO ROBOTICS"

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

Year/Sem! Walley, Madurai Main Road Manikandam, Trichy-620 012.

Name of the Student:

AU Register Number:

a. Chassis

1. A place where power, information, or a result leaves a system

## **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

| c. sensor  | d. troubleshooting                           |
|--|--|
| 2. Which of the following describes the use of technology or machine     | ery, specifically involving gases?           |
| a. Pneumatics  | b. Hydraulics                                |
| c. Actuation   | d, Carbonation                               |
| 3. The position or alignment relative to points of the compass or other  | er specific directions                       |
| a. Loops   | b. Sensor                                    |
| c. Chassis   | d. Orientation                               |
| 4. A mechanism having its motive power so concealed that it appears      | s to move spontaneously                      |
| a. Automatic   | b. Clock Jack                                |
| c. Robot   | d. Automata                                  |
| 5. The branch of technology that deals with dimensions of microscopic    | c proportion, is known as?                   |
| a. Nanny technology  | b. Nanotechnology                            |
| c. Microtechnology   | d. Micromachinery                            |
| 6. Which of the following is not an advantage of Robots?                 |  |
| a. They can assist humans with disabilities                              | <ul> <li>b. They can replace jobs</li> </ul> |
| c. They can be used in dangerous environment                             | d. They don't get tired or require a break   |
| 7. The Hummingbird require extra power to be able to w                   | ork  |
| a. Sensors   | b. LEDs                                      |
| c. Motors  | d. Tri-Color LEDs                            |
| 8. The branch of technology that deals with the design, construction,    | operation, and application of robots         |
| a. levers  | b. robotics                                  |
| c. creative power  | d. Science CSF                               |
| 9. When working in a group for robotics, students should                 | njama.<br>Matematika                         |
| a. Stay on task but don't work with other group members                  | b. Socialize with group members outside of   |
|  | your group and then work alone               |
| c. Socialize with other group members and don't help your group          | d. Stay on task and work with other group    |
|  | members appropriately                        |
| 10. A rigid external covering for the body in some invertebrate animals  | but also robots.                             |
| a. Exoskeleton   | b. Armor                                     |
| c. Endoskeleton  | d. Hardware                                  |
| 11. The 3rd law of robotics Spirit Isaac Asimov first announced the 3 la | ws of robotics in 1942.                      |
| a. A robot may not injure a human being or, through inaction, allow a    | b. A robot can't go to school                |
| numan being to come to harm  | -  |
| C. A robot must obey orders given it by human beings except where        | d. A robot must protect its own existence as |
|  |  |



a. Code

c, Robots

23. The three characteristic capabilities that define a robot

# Indra Ganesan





# Value Added Course "INTRODUCTION TO ROBOTICS"

| such orders would confli      | ct with the First law                       | long as such protection does not conflict wit<br>the First or Second Law |
|-------------------------------|---|--|
|                               |   |  |
| 12. How many systems o        | loes a robot have?                          |  |
| a. 2                          |   | b. 6   |
| c. 4                          |   | d. 3   |
| 13. Engines and joints be     | elong to what system?                       |  |
| a. Digestive system           |   | b, Sensory system  |
| c. Electric system            |   | d. Mechanic system   |
| 14, How many types of ro      | obots are there?                            |  |
| a. 7                          | b. 10                                       |  |
| с. б                          | d. 8  |  |
| 15. What are the compo        | nents of the electric system?               |  |
| a. Electric joints and cables | b. Batteries and electric wiring            | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| c. Engines and joints         | d. Thunder and lightning                    | Indra Ganesan College of Engineering                                     |
| 16. How many componer         | nts does the control system have?           | IG Valley, Madurai Main Road   |
| a. 4                          |   | b. 1 Manikandam, Trichy-620 012.   |
| c. 2                          |   | d. 5   |
| 17. The processor belong      | s to the                                    |  |
| a. Sensory system             |   | b. Mechanic system   |
| c. Electric system            |   | d. Control system  |
| 18. One of these is NOT a     | type of robot                               |  |
| a. Medical                    |   | b. Industrial  |
| c. Household                  |   | d. Apologetic  |
| 19. The small mobile robo     | ot base used in the Robot Educator. This re | obot is able to perform some but not all of the tasks                    |
| in the Robotics Engineerin    | ng activities                               |  |
| a. Light sensor               |   | b. Lego Mindstorms Education Software                                    |
| c. Robot                      |   | d. Robot Educator Model (REM)  |
|                               | •   | ing Software. Blocks perform their operations in                         |
| order along the Sequence      | Beam  |  |
| a. Touch Sensor               |   | b. Block (programming)   |
| c. Ports                      |   | d. Behaviors   |
|                               | physical motion in the Mind storms NXT      | •  |
| a. Interactive Servo Motor    |   | b. Behaviors   |
| c. Light Sensor               | =   | d. Touch Sensor  |
|                               |   | nment. characterized by three central capabilities:                      |
| the ability to Sense, the ab  | ility to Plan, and the ability to Act       | Memberriff 1 Mild Asia Basic Asia Asia Asia Asia Asia Asia Asia Asia     |

b. Taskbot

d. Ports



a. Comment

# Indra Ganesan



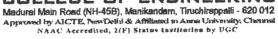
b. Sensor

Medurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellii & Affiliasci to Anna University, Charmai NAAC Accredited, 2(F) States Institution by UGC

# Value Added Course "INTRODUCTION TO ROBOTICS"



## COLLEGE OF ENGINEERING





## Value Added Course "INTRODUCTION TO ROBOTICS"

### ANSWER KEY

| 1 | Α | 6  | Α | 11 | A | 16 | A | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | С | 7  | В | 12 | D | 17 | C | 22 | D |
| 3 | A | 8  | В | 13 | В | 18 | В | 23 | В |
| 4 | В | 9  | В | 14 | С | 19 | Α | 24 | С |
| 5 | В | 10 | В | 15 | В | 20 | D | 25 | Α |

G- Keesthair VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 Approved by AICTE, NewDelbi & Affliated to Anna University, Chewsai NAAC Accredited, 2(F) States Institution by UGC



the First or Second Law

Value Added Course "INTRODUCTION TO ROBOTICS"
KANTHIKA · S

Name of the Student:

AU Register Number:

such orders would conflict with the First law

811920106023

# Verr/Sem: III/V

| MULTIPLE CHOICE QUESTIONS   | Ilr ( Dalan Sille                              |
|---|--|
|   | D-incipal                                      |
| 1. A place where power, information, or a result leaves a system          | h output Indra Ganesan College of Engineering  |
| a) Chassis  | D, Output                                      |
| c. sensor   | d. troubleshooting Manikandam, Irichy-120 0220 |
| 2. Which of the following describes the use of technology or machiner     |  |
| a. Pneumatics   | b. Hydraulics                                  |
| © Actuation   | d. Carbonation                                 |
| 3. The position or alignment relative to points of the compass or other   |  |
| 3 Loops   | b. Sensor                                      |
| c. Chassis  | d. Orientation                                 |
| 4. A mechanism having its motive power so concealed that it appears       | to move spontaneously                          |
| a. Automatic  | (b) Clock Jack                                 |
| c. Robot  | d. Automata                                    |
| 5. The branch of technology that deals with dimensions of microscopic     | proportion, is known as?                       |
| a Nanny technology .  | b. Nanotechnology                              |
| c. Microtechnology  | d. Micromachinery                              |
| 6. Which of the following is not an advantage of Robots?                  |  |
| They can assist humans with disabilities                                  | b. They can replace jobs                       |
| c. They can be used in dangerous environment                              | d. They don't get tired or require a break     |
| 7. The Hummingbird require extra power to be able to wo                   | ork _  |
| a, Sensors  | (b) LEDs                                       |
| c, Motors   | d. Tri-Color LEDs                              |
| 8. The branch of technology that deals with the design, construction, o   | peration, and application of robots            |
| a, levers   | (b) robotics                                   |
| c. creative power   | d. Science CSF                                 |
| 9. When working in a group for robotics, students should                  | NAME AND   |
| a) Stay on task but don't work with other group members                   | b. Socialize with group members outside of     |
|   | your group and then work alone                 |
| c. Socialize with other group members and don't help your group           | d. Stay on task and work with other group      |
| <u>, , , , , , , , , , , , , , , , , , , </u>                             | members appropriately                          |
| 10. A rigid external covering for the body in some invertebrate animals b | out also robots.                               |
| a. Exoskeleton  | (b) Armor                                      |
| c. Endoskeleton   | d. Hardware                                    |
| 11. The 3rd law of robotics Spirit Isaac Asimov first announced the 3 la  | ws of robotics in 1942.                        |
| a) A robot may not injure a human being or, through inaction, allow a     | b. A robot can't go to school                  |
| human being to come to harm   |  |
| •   | d. A robot must protect its own existence as   |
| c. A robot must obey orders given it by human beings except where         | long as such protection does not conflict with |
| such orders would conflict with the First law                             | inite as sanit hintenting ands the commer time |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi-& Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



# Value Added Course "INTRODUCTION TO ROBOTICS"

| 12. How many systems does a robot have?                           |  |
|---|--|
| a. 2  | b. 6   |
| €. 4  | <b>√</b> (a) 3   |
| 13, Engines and joints belong to what system?                     |  |
| a, Digestive system   | b. Sensory system  |
| ₹ Electric system   | d. Mechanic system   |
| 14. How many types of robots are there?                           | d. Wedding System  |
|   |  |
| a. 7 b. 10  | J.P.   |
| <b>€</b> 6 d. 8   |  |
| 15. What are the components of the electric system?               | Dr. G. Balakrishnan, M.E., Fh.   |
| a. Electric joints and D. Batteries and electric wiring           | Principal  |
| cables  | Indra Ganesan College of Engineering   |
| c. Engines and joints d. Thunder and lightning                    | IG Valley, Madurai Main Road   |
| 16. How many components does the control system have?             | Manikandam, Trichy-620 012.  |
|   | , , , , , , , , , , , , , , , , , , ,  |
| <b>3</b> 4  | b. 1   |
| c. 2  | d. 5   |
| 17. The processor belongs to the                                  |  |
| a. Sensory system   | b. Mechanic system   |
| © Electric system   | d. Control system  |
| 18. One of these is NOT a type of robot                           |  |
| a. Medical  | (b) Industrial   |
| c. Household  | d. Apologetic  |
| 19. The small mobile robot base used in the Robot Educator. The   | nis robot is able to perform some but not all of the task  |
| in the Robotics Engineering activities                            | and the second s |
| (a) Light sensor  | b. Lego Mindstorms Education Software  |
| c. Robot  | d. Robot Educator Model (REM)  |
| 20. A block is the basic unit of programming in the NXT program   | mming Software. Blocks perform their operations in   |
| order along the Sequence Beam                                     | o per a la l  |
| a. Touch Sensor   | b. Block (programming)   |
| c. Ports  | (d) Behaviors  |
| 21. The primary source of physical motion in the Mind storms N    | IXT system   |
| a. Interactive Servo Motor  | (b) Behaviors  |
| c. Light Sensor   | d. Touch Sensor  |
| 22. A machine that is able to interact with and respond to its en | yiranmant characterized by the state of the  |
| the ability to Sense, the ability to Plan, and the ability to Act | who intent. Characterized by three central capabilities:   |
| a. Code   | ~10-11   |
| c. Robots   | <b>◯</b> Taskbot   |
| 23.The three characteristic capabilities that define a robot      | d. Ports   |
| a, Comment  | (A) Samuel   |
| c. Sense-Plan-Act   | 6b. Sensor   |
| Misseries (1991-1994)   | d. NXT Brick   |



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Truchirappelli - 620 012 Apparined by ALCTE, New Delitd & Affiliated to Arms University. Chersnell RAAC Accredited, 2(8) Status Institution by UGC



# Value Added Course "INTRODUCTION TO ROBOTICS"

| 24. When working in a group for robotics, students should                 |   |
|---|---|
| a. Socialize instead of work and then work alone                          | b. Stay on task and don't work with your group            |
| Work alone and don't socialize with group members                         | d. stay on task and work with group members appropriately |
| 25. General term for any command or group of commands in a primore blocks | program. In the NXT Programming Software, this is one     |
| Comment . Ports   | b. Code<br>d. Robot                                       |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelini & Affiliated to Arma University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

| Name   | of the  | Store  | dent |  |
|--------|---------|--------|------|--|
| Hallic | VI LIIC | 171111 |      |  |

Year/Sem:

AU Register Number:

## Value Added Course

"Mechanical electrical and plumbing methods"

## MCQ QUESTIONS (25X4 = 100 Marks)

|  | 20022  |
|--|--|
| 1. Pump Start but Motor get overloaded or Trip on    | overload.  |
| a) Alignment is wrong                                | c) Worn out / Damaged ball bearing                 |
| b) Gland packing too tight                           | d) Cavitations exists                              |
| 2. During flooding of a dry dock the following it    | ems must be verified.                              |
| a). All sea valves are operational                   | c). All overboard discharge valves are operational |
| b) Stern tube seal are operational                   | d). All of the above                               |
| 3. Which type of valve is Bidirectional              |  |
| a) Globe valve                                       | b) Gate valve                                      |
| c) Ball valve  | d) Butterfly valve                                 |
| 4. Which of the following V/V cannot be overhaule    | d in place without removing piping?.               |
| a) Ball Valve  | b) Diaphragm valve                                 |
| c) Globe valve                                       | d) Butterfly valve                                 |
| 5. The purpose of an evaporator in the domestic refi | rigeration system is to                            |
| a) Transmit latent heat of evaporation               | b) Absorb latent heat of fusion                    |
| c)Absorb latent heat of evaporation                  | d)Transmit latent heat of fusion                   |
| 6. The attached vacuum pump of a ballast pump ope    | erates on the principle of a:                      |
| a). Centrifugal pump                                 | b). Reciprocating pump                             |
| c). Gear Pump  | d). Vane Pump                                      |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- 7. Increasing the rotational speed of a cargo pump the pump flow rate will:
- a). Increase in direct proportion to the increase in speed in speed
- b). Decrease in direct proportion to the increase
- c). Flow rate doesn't depend upon speed
- d). Flow Increased
- 8. Shaft sealing of a main sea water pump for ship plying in coastal muddy waters, which is the best option

b). Lip seal with garter spring

c) Mechanical seal

- d). Cup seal
- 9. The lower half of main bearing of a very large diesel engine can be removed by:
- a) Pulling out with a chain block

b). By hammering out with the help of a soft

mallet

- c). By slightly jacking the crankshaft and turning out the bearing half with a rope or similar tackle provided.
- d). By using a special tool in the oil hole and turning the shaft to turn out the lower half.
- 10. Direction of rotation of centrifugal pump is reversed by changing the motor connections
- a. pump will deliver the liquid in reverse direction affected
- b. pump discharge and capacity will be

c. efficiency will decrease

- d.casing get overheated
- 11 .Most steam traps respond well to cleaning. But when a thermodynamic trap fails to operate after cleaning, the next course of action should be:
- a) Throttle the steam outlet valve

b). Renew the trap

c)Lap the disc and the seat of the trap

- d). Throttle the steam inlet valve
- 12. When M/E stand by F.O.heater in use of main engine
- a) Sudden opening F.O. inlet valve pressurized and damage the heater b) F.O. in vapour lock inside heater allow steam
- c) F.O. inlet valve causes pressure drop M/E F.O. pressure standby water is not pressurized may cause sudden change in engine /per load/rpm d) heater leaking.

rishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Mianikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

| 13. Net Positive Suction Head is the                              |  |
|---|--|
| a). Difference of Total suction head and Total discharge head     | b). Difference of static head and the          |
| frictional head   |  |
| c). Difference of dynamic suction head and the                    |  |
| vapour pressure of liquid   | d). Difference of Static suction head and the  |
| vapour pressure of liquid   |  |
|   |  |
| 14. Which of the following will be required to be done in orde    | r to reduce sculpture corrosion of Main Engine |
| components  |  |
| a). Increasing the atomization pressure of fuel injectors         | b). Fitting exhaust valves with valve rotators |
| c). Running engine at or near normal sea load                     | d). Decreasing the F.O. purifier feed rate,    |
| running two purifier in series one acting as purifier and other a | s clarifier                                    |
|   |  |
|   |  |

15. If the direction of rotation of a gear pump is reversed due to change in-phase sequence, what happens when the pump is started?a). Direction of flow remains the sameb). The pump will get damaged due to

overpressure on suction side

b). The pump will get damaged due to

C. Pump relief valve will be lifted

d). The direction of flow will be reversed

16. you must have used rubber reinforced joints. The reinforcement is normally provided using non asbestos fibers. The reinforcement is provided because

- a) Ordinary rubber gasket has porous matrix. Having capillaries which can allow liquid leakage when subjected to high pressure.
- b) To increase load carrying capacity of the joint so it can withstand high pr.
- c) To increase temp resistance of joint
- d) To protect the joints from fire or other accidental damage.

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

17. Which of the following can lead to premature failure of roller bearings?

a). Misalignment

b). Contamination

C. Shrinkage

d). Over greasing

- 18. Metal cladding provides protection to the metal essentially for the life of ship because
- a). During cladding the protective coating reacts chemically with the base metal and inhibits corrosion
- b). This is the only method in which the completeness of the metal coating can assured, while other methods are liable to defects
- c). The thickness of protective coating is greater compared to any other metal coating method used
- d). The adherence of coating is best in case of metal cladding



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC

19. Butterfly valve stuck in half open position. How to repair.....not same but related Q.

| a. Can't b taken                             | out in open position fr line so try to close valve                     | b) Apply hammer to shut it.                  |  |  |
|--|--|--|--|--|
| c. Remove pipeline n do overhaul             |  | d) Cannot b repaired onboard.                |  |  |
| 20. When steel c                             | omponents electroplated with chromium r used in o                      | corrosive environment                        |  |  |
|  | ng prevents corrosion  | b).Protection to the steel will b            |  |  |
| preferentially con                           |  | •  |  |  |
| c. zinc plating is                           | used on top of chrome plating for corrosion protect                    | etion d).Thickness of chrome plating to      |  |  |
| increase                                     | * .  |  |  |  |
|  |  |  |  |  |
| 21. Fire p/p1 wa                             | ter to deck discharge pr 5 bar deck hydrant not gett                   | ting water. Fire p/p2 discharge pr 2.5 gives |  |  |
| water. Fire pump                             | 1 unable to send water to hydrant. What is the reas                    | son?   |  |  |
| a. Pump pressure                             | e gauge defective  | b). Overboard discharge v/v fully            |  |  |
| opened so water                              | is not going to deck   |  |  |  |
| c. Pump suction                              | filter choke   | d). Pump discharge v/v may b stuck           |  |  |
| 22. Double entry                             | impeller of centrifugal pump   |  |  |  |
| a. Inc. axial thru                           | st   | b). Inc. motor load                          |  |  |
| c. Red. Load on                              | pump bearings  | d). Inc. load on pump                        |  |  |
| 23. Excessive lub                            | prication in compressors can lead to: multiple                         |  |  |  |
| a). Sticking of va                           | alves  | b). Carryover and deposit of oil             |  |  |
| particles in pipeli                          | nes and reservoirs   |  |  |  |
| c). Decompression                            | on   | d). Detonation                               |  |  |
| 24. In a three pha                           | se electrical equipment, the immediate action in the                   | e event of a fuse blowing in one of the      |  |  |
| phases, would be                             | : +  |  |  |  |
| a). To replace wi                            | th a fuse of correct rating  | b). To replace fuses on all three phases     |  |  |
| c). To try to repa                           | ir the fuse  | d)To investigate the fault that led to the   |  |  |
| blowing of the fu                            | se   |  |  |  |
| 25. Which of the                             | following instruments measures propeller drop?                         |  |  |  |
| a). Poker Gauge                              |  | b). Telescopic feeler gauge                  |  |  |
| c). Trammel Dr. G. Balakrishnan, M.E., Ph.D. |  | d). Propeller drop gauge                     |  |  |
|  | Principal Indra Ganesan College of Engineering IG Valley, Madural Main |  |  |  |

IG Valley, Madurai Main Road Manikandam, Trichy-620 012





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

### Value Added Course

# "Mechanical electrical and plumbing methods"

### ANSWER KEY

| 1 | ď | 6  | С | 11 | ь | 16 | ь | 21 | a |
|---|---|----|---|----|---|----|---|----|---|
| 2 | b | 7  | d | 12 | С | 17 | ь | 22 | С |
| 3 | С | 8  | a | 13 | a | 18 | d | 23 | b |
| 4 | Ъ | 9  | b | 14 | b | 19 | a | 24 | d |
| 5 | a | 10 | d | 15 | d | 20 | d | 25 | С |

Dr. G. Balakrishnan, M.E., Ph.D.
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-820 012

VAC Coordinator



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

Madural Main Road (NH-45B), Manikandam, Ilruchirappalli - 620 012
Approved by AICTE, NewDellii & Affiliated to Anna University, Chennal
NAAC Accredited, 2(F) Status Institution by UGC



|         |       |          | $\wedge$ | ^  |
|---------|-------|----------|----------|----|
| Name of | f the | Student: | nokul    | ·R |

Year/Sem: Tw/meu/

AU Register Number: 8112 19114701

## Value Added Course

"Mechanical electrical and plumbing methods"

# MCQ QUESTIONS (25X4 = 100 Marks)

| MCQQUESTION   | 5 (25A4 - 100 Marks)                               |  |  |  |
|---|--|--|--|--|
| 1. Pump Start but Motor get overloaded or Trip on over  | erload   |  |  |  |
| a) Alignment is wrong                                   | c) Worn out/Damaged ball bearing                   |  |  |  |
| b) Gland packing too tight                              | d) Cavitations exists                              |  |  |  |
| 2. During flooding of a dry dock the following items    | s must be verified.                                |  |  |  |
| a). All sea valves are operational                      | c). All overboard discharge valves are operational |  |  |  |
| Stern tube seal are operational                         | d). All of the above                               |  |  |  |
| 3. Which type of valve is Bidirectional                 |  |  |  |  |
| a) Globe valve  | b) Gate valve                                      |  |  |  |
| Ball valve  | d) Butterfly valve                                 |  |  |  |
|   |  |  |  |  |
| 4. Which of the following V/V cannot be overhauled in   | place without removing piping?.                    |  |  |  |
| a) Ball Valve   | (b)Diaphragm valve                                 |  |  |  |
| c) Globe valve  | d) Butterfly valve                                 |  |  |  |
|   |  |  |  |  |
| 5. The purpose of an evaporator in the domestic refrige | ration system is to                                |  |  |  |
| a Transmit latent heat of evaporation                   | b) Absorb latent heat of fusion                    |  |  |  |
| c)Absorb latent heat of evaporation                     | d)Transmit latent heat of fusion                   |  |  |  |
| 6. The attached vacuum pump of a ballast pump operate   | es on the principle of a:                          |  |  |  |
| a). Centrifugal pump                                    | b). Reciprocating pump                             |  |  |  |
| Gear Pump   | d). Vane Pump                                      |  |  |  |
|   |  |  |  |  |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



7. Increasing the rotational speed of a cargo pump the pump flow rate will:

a). Increase in direct proportion to the increase in speed in speed

b). Decrease in direct proportion to the increase

c). Plow rate doesn't depend upon speed

d). Flow Increased

8. Shaft sealing of a main sea water pump for ship plying in coastal muddy waters, which is the best option

c) Mechanical seal

Lip seal with garter spring

d). Cup seal

9. The lower half of main bearing of a very large diesel engine can be removed by:

a) Pulling out with a chain block mallet

b). By hammering out with the help of a soft

c). By slightly jacking the crankshaft and turning out the bearing half with a rope or similar tackle provided.

d) By using a special tool in the oil hole and turning the shaft to turn out the lower half.

10. Direction of rotation of centrifugal pump is reversed by changing the motor connections

a. pump will deliver the liquid in reverse direction affected

b. pump discharge and capacity will be

c. efficiency will decrease

d.casing get overheated

11 .Most steam traps respond well to cleaning. But when a thermodynamic trap fails to operate after cleaning, the next course of action should be:

a) Throttle the steam outlet valve

c)Lap the disc and the seat of the trap

Renew the trap

d). Throttle the steam inlet valve

12. When M/E stand by F.O.heater in use of main engine

a) Sudden opening F.O. inlet valve pressurized and damage the heater b) F.O. in vapour lock inside heater allow steam

O. inlet valve causes pressure drop M/E F.O. pressure standby water is not pressurized may cause sudden change in engine /per load/rpm

d) heater leaking.

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



frictional head

## COLLEGE OF ENGINEERING





|                         | Approved by AICTE, New Delhi & Affiliated to<br>NAAC Accredited, 2(F) Status Insti |                     |                    |
|-------------------------|--|---------------------|--------------------|
| 13 Net Positive Suction | Head is the  |                     |                    |
| Difference of Total su  | ction head and Total discharge head  | b). Difference of s | tatic head and the |

c). Difference of dynamic suction head and the vapour pressure of liquid vapour pressure of liquid

d). Difference of Static suction head and the

14. Which of the following will be required to be done in order to reduce sculpture corrosion of Main Engine components

a). Increasing the atomization pressure of fuel injectors

Titting exhaust valves with valve rotators

c). Running engine at or near normal sea load d). Decreasing the F.O. purifier feed rate, running two purifier in series one acting as purifier and other as clarifier

15. If the direction of rotation of a gear pump is reversed due to change in-phase sequence, what happens when the pump is started?

a). Direction of flow remains the same overpressure on suction side

b). The pump will get damaged due to

C. Pump relief valve will be lifted

The direction of flow will be reversed

16. you must have used rubber reinforced joints. The reinforcement is normally provided using non asbestos fibers. The reinforcement is provided because

a) Ordinary rubber gasket has porous matrix. Having capillaries which can allow liquid leakage when subjected to high pressure.

b) To increase load carrying capacity of the joint so it can withstand high pr.

c) To increase temp resistance of joint

d) To protect the joints from fire or other accidental damage.

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012.

17. Which of the following can lead to premature failure of roller bearings?

a). Misalignment

C. Shrinkage

M. Contamination

d). Over greasing

18. Metal cladding provides protection to the metal essentially for the life of ship because

- a). During cladding the protective coating reacts chemically with the base metal and inhibits corrosion
- b). This is the only method in which the completeness of the metal coating can assured, while other methods are liable to defects
- c). The thickness of protective coating is greater compared to any other metal coating method used
- d). The adherence of coating is best in case of metal cladding



(c) Trammel

Dr. G. Balakri

shnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

d). Propeller drop gauge





| 19. Butterfly valve stuck in half open position. How to repair         | not some but related O                        |
|--|---|
| a. can't b taken out in open position fr line so try to close valve    | b) Apply hammer to shut it.                   |
|  |   |
| c. Remove pipeline n do overhaul                                       | d) Cannot b repaired onboard.                 |
| 20. When steel components electroplated with chromium r used in        | corrosive environment                         |
| a. Chrome plating prevents corrosion                                   | b).Protection to the steel will b             |
| preferentially corroded  |   |
| c. zinc plating is used on top of chrome plating for corrosion prote   | ection d). Thickness of chrome plating to     |
| increase   |   |
| 21. Fire p/p1 water to deck discharge pr 5 bar deck hydrant not ge     | tting water. Fire p/p2 discharge pr 2.5 gives |
| water. Fire pump 1 unable to send water to hydrant. What is the re-    | ason?   |
| a Pump pressure gauge defective  | b). Overboard discharge v/v fully             |
| opened so water is not going to deck                                   |   |
| c. Pump suction filter choke   | d). Pump discharge v/v may b stuck            |
| 22. Double entry impeller of centrifugal pump                          |   |
| a. Inc. axial thrust   | b). Inc. motor load                           |
| c. Red. Load on pump bearings  | d). Inc. load on pump                         |
| 23. Excessive lubrication in compressors can lead to: multiple         |   |
| a). Sticking of valves   | b) Carryover and deposit of oil               |
| particles in pipelines and reservoirs                                  |   |
| c). Decompression  | d). Detonation                                |
| 24. In a three phase electrical equipment, the immediate action in the | ne event of a fuse blowing in one of the      |
| phases, would be:  | /   |
| a). To replace with a fuse of correct rating                           | b). To replace fuses on all three phases      |
| c). To try to repair the fuse  | To investigate the fault that led to the      |
| blowing of the fuse  |   |
| 25. Which of the following instruments measures propeller drop?        |   |
| a). Poker Gauge  | b). Telescopic feeler gauge                   |



# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemni
NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student:

Year/Sem:

AU Register Number:

## Value Added Course

"Speech Recognition Technology in Natural Network"

### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1. What is the goal of natural language processing (NLP)?
- a) To understand human language and enable computers to interact with humans in a natural way
- b) To create new languages for computers to communicate with each other
- c) To develop machines that can understand and speak all languages in the world
- d) To replace human communication with machine communication
- 2. Which of the following is an example of natural language processing?
- a) Translating a document from English to Spanish
- b) Extracting insights from customer reviews
- c) Analyzing data in a spreadsheet
- d) Playing a game of chess
- 3. What is the main challenge/s of NLP?
- a) Handling Ambiguity of Sentences
- b) Handling Tokenization
- c) Handling POS-Tagging
- d) All of the mentioned
- 4. Choose form the following areas where NLP can be useful.
- a) Automatic Text Summarization
- b) Automatic Question-Answering Systems
- c) Information Retrieval
- d) All of the mentioned
- 5. Which of the following includes major tasks of NLP?
- a) Automatic Summarization
- b) Discourse Analysis
- c) Machine Translation
- d) All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

- 6. What is Coreference Resolution?
- a) Anaphora Resolution
- b) Given a sentence or larger chunk of text, determine which words ("mentions") refer to the same objects
- c) All of the mentioned
- d) None of the mentioned



# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- 7. What is Machine Translation?
- a) Converts one human language to another
- b) Converts human language to machine language
- c) Converts any human language to English
- d) Converts Machine language to human language
- 8. What is Morphological Segmentation?
- a) Does Discourse Analysis
- b) Separate words into individual morphemes and identify the class of the morphemes
- c) Is an extension of propositional logic
- d) None of the mentioned
- 9. What is the dominant modality for communication between humans?
- a) Hear
- b) Speech
- c) Smell
- d) None of the mentioned
- 10. What kind of signal is used in speech recognition?
- a) Electromagnetic signal
- b) Electric signal
- c) Acoustic signal
- d) Radar
- 11. What is viewed as problem of probabilistic inference?
- a) Speech recognition
- b) Speaking
- c) Hearing
- d) Utterance
- 12. Which specifies the prior probability of each utterance?
- a) Sound model
- b) Model
- c) Language model
- d) All of the mentioned

Dr. G. Bałakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

1

- 13. Which model gives the probability of each word following each other word?
- a) Bigram model
- b) Diagram model
- c) Gram model
- d) Speech model
- 14. What is the study of how the language sounds?
- a) Speechology
- b) Biology
- c) Trilogy
- d) Phonology



# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemai NAAC Accredited, 2(F) Status Institution by UGC



- 15. What are periodic changes in pressure that propagate through the air?
- a) Air waves
- b) Sound waves
- c) Rate
- d) None of the mentioned
- 16. What is called as the properties of the signal that extend over interval?
- a) Hops
- b) Rate
- c) Frames
- d) All of the mentioned
- 17. Which is used to capture the internal structure of the phones?
- a) One-state phone model
- b) Two-state phone model
- c) Three-state phone mone
- d) All of the mentioned
- 18. Which are partially captured by triphone model?
- a) Articulation effects
- b) Coarticulation effects
- c) Both Articulation & Coarticulation effects
- d) None of the mentioned
- 19. What is full form of NLU?
  - a) Nature Language Understanding
  - b) Natural Long Understanding
  - c) Natural Language Understanding
  - d) None of the Above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

20. What is Morphological Segmentation?

a) Does Discourse Analysis

b) is an extension of propositional logic

c) Separate words into individual morphemes and identify the class of the morphemes

d) None of the Above

- 21. Which of the following is used to mapping sentence plan into sentence structure?
- a) Text planning
- b) Sentence planning
- c) Text Realization
- d) None of the Above



# Indra Ganesan COLLEGE OF ENGINEERING



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

- 22. Which of the following is used study of construction of words from primitive meaningful units?
  - a) Phonology
  - b) Morphology
  - c) Morpheme
  - d) Shonology
- 23. Parts-of-Speech tagging determines
- a) part-of-speech for each word dynamically as per meaning of the sentence
- b) part-of-speech for each word dynamically as per sentence structure
- c) all part-of-speech for a specific word given as input
- d) All of the above

|                                    | is the process for reducing inflected words to their root form.    |
|------------------------------------|--|
| 24. In linguistic morphology _     | is the process for reducing inflected words to their root form.    |
| 7. III IIII EUISIIC IIIOI DIIOIOEV | is the process for readening inflocted words to their root rotter. |
|                                    |  |

- a) Rooting
- b) Stemming
- c) Text-Proofing
- d) Both Rooting & Stemming
- 25. Which of the following is demerits of Top-Down Parser?
- a)It is hard to implement.
- b) Slow speed
- c) inefficient
- d) Both B and C

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



# Value Added Course

"Speech Recognition Technology in Natural Network"

### ANSWER KEY

| 1 | a | 6  | b | 11 | a | 16 | c | 21 | С |
|---|---|----|---|----|---|----|---|----|---|
| 2 | b | 7  | a | 12 | С | 17 | С | 22 | b |
| 3 | a | 8  | b | 13 | a | 18 | ь | 23 | d |
| 4 | d | 9  | b | 14 | d | 19 | a | 24 | d |
| 5 | d | 10 | С | 15 | b | 20 | С | 25 | ь |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Moutha. A

Year/Sem: W

**AU Register Number:** 

811270205006

# Value Added Course

"Speech Recognition Technology in Natural Network"

## **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

1. What is the goal of natural language processing (NLP)?

a) To understand human language and enable computers to interact with humans in a natural way

b) To create new languages for computers to communicate with each other

c) To develop machines that can understand and speak all languages in the world

d) To replace human communication with machine communication

2. Which of the following is an example of natural language processing?

a) Translating a document from English to Spanish

- b) Extracting insights from customer reviews
- c) Analyzing data in a spreadsheet
- d) Playing a game of chess
- 3. What is the main challenge/s of NLP?
- a) Handling Ambiguity of Sentences
- b) Handling Tokenization
- c) Handling POS-Tagging
- d) All of the mentioned
- 4. Choose form the following areas where NLP can be useful.

a) Automatic Text Summarization

- الح. Automatic Question-Answering Systems
  - c) Information Retrieval
  - d) All of the mentioned

5. Which of the following includes major tasks of NLP?

- a) Automatic Summarization
- b) Discourse Analysis
- c) Machine Translation
- d) All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

6. What is Coreference Resolution?

- a) Anaphora Resolution
- b) Given a sentence or larger chunk of text, determine which words ("mentions") refer to the same objects
- c) All of the mentioned
  - d) None of the mentioned





## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemsi

NAAC Accredited, 2(F) Status Institution by UGC



- 7. What is Machine Translation?
- a) Converts one human language to another
- b) Converts human language to machine language
- c) Converts any human language to English /
- d) Converts Machine language to human language
- 8. What is Morphological Segmentation?
- a) Does Discourse Analysis
- b) Separate words into individual morphémes and identify the class of the morphemes
- c) Is an extension of propositional logic
- d) None of the mentioned
- 9. What is the dominant modality for communication between humans?
- a) Hear
- b) Speech
- c) Smell
- d) None of the mentioned
- 10. What kind of signal is used in speech recognition?
- a) Electromagnetic signal
- b) Electric signal
- c) Acoustic signal
- A) Radar
- 11. What is viewed as problem of probabilistic inference?
- a) Speech recognition
- b) Speaking
- c) Hearing
- طُر Utterance
- 12. Which specifies the prior probability of each utterance?
- a) Sound model
- b) Model
- c) Language model
- All of the mentioned
  - 13. Which model gives the probability of each word following each other word?
  - a) Bigram model
- b) Diagram model
- c) Gram model
- A) Speech model
- 14. What is the study of how the language sounds?
- a) Speechology
- b) Biology
- C) Trilogy
- d) Phonology

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 520 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemni NAAC Accredited, 2(F) Status Institution by UGC



- 15. What are periodic changes in pressure that propagate through the air?
- a) Air waves
- b) Sound waves
- c) Rate
- A) None of the mentioned
  - 16. What is called as the properties of the signal that extend over interval?
- a) Hops
- b) Rate
- Frames
- d) All of the mentioned
- 17. Which is used to capture the internal structure of the phones?
- a) One-state phone model
- Two-state phone model
- c) Three-state phone mone
- d) All of the mentioned
- 18. Which are partially captured by triphone model?
- Articulation effects
- b) Coarticulation effects
- c) Both Articulation & Coarticulation effects
- d) None of the mentioned
- 19. What is full form of NLU?
  - a) Nature Language Understanding
  - b) Natural Long Understanding
  - c) Natural Language Understanding
  - d) None of the Above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

20. What is Morphological Segmentation?

- a) Does Discourse Analysis
- b) is an extension of propositional logic
- c) Separate words into individual morphemes and identify the class of the morphemes
- d) None of the Above
- 21. Which of the following is used to mapping sentence plan into sentence structure?
- a) Text planning
- b) Sentence planning
- c) Text Realization
- d) None of the Above



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Cheunai



|  | NAAC Accredited, 2(F) Status Institution by UGC                               | VV                  |
|--|---|---------------------|
| 22. Which of the following is use  | d study of construction of words from primitive meaning                       | gful units?         |
|  | namically as per meaning of the sentence ynamically as per sentence structure |                     |
| 24. In linguistic morphology  a) Rooting b) Stemming c) Text-Proofing d) Both Rooting & Stemming | is the process for reducing inflected words to                                | to their root form. |
| 25. Which of the following is dem  | erits of Top-Down Parser?   |                     |

a) It is hard to implement.

- b) Slow speed
  - c) inefficient
  - d) Both B and C

34 S., Ph.D., Jr. G. Balakrish

Indra Ganesan Ca

a agineering

IG Valley, Mad an Lin Road

Manikandam, Trichy-620 012.



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemai NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student: Divesh. M

Year/Sem: 🕠

AU Register Number: 811220 205011

## Value Added Course

"Speech Recognition Technology in Natural Network"

### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1. What is the goal of natural language processing (NLP)?
- a) To understand human language and enable computers to interact with humans in a natural way
- め) To create new languages for computers to communicate with each other
- c) To develop machines that can understand and speak all languages in the world
- d) To replace human communication with machine communication
- 2. Which of the following is an example of natural language processing?
- a) Translating a document from English to Spanish
- b) Extracting insights from customer reviews
- c) Analyzing data in a spreadsheet
- d) Playing a game of chess
- 3. What is the main challenge/s of NLP?
- a) Handling Ambiguity of Sentences
- b) Handling Tokenization
- c) Handling POS-Tagging
- d) All of the mentioned
- 4. Choose form the following areas where NLP can be useful.
- a) Automatic Text Summarization
- b) Automatic Question-Answering Systems
- c) Information Retrieval
- d) All of the mentioned
- 5. Which of the following includes major tasks of NLP?
- a) Automatic Summarization
- b) Discourse Analysis
- c) Machine Translation
- d) All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

- 6. What is Coreference Resolution?
- a) Anaphora Resolution
- b) Given a sentence or larger chunk of text, determine which words ("mentions") refer to the same objects
- c) All of the mentioned
- d) None of the mentioned



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- 7. What is Machine Translation?
- a) Converts one human language to another
- b) Converts human language to machine language
- c) Converts any human language to English
- d) Converts Machine language to human language
- 8. What is Morphological Segmentation?
- a) Does Discourse Analysis
- Separate words into individual morphemes and identify the class of the morphemes
- c) Is an extension of propositional logic
- d) None of the mentioned
- 9. What is the dominant modality for communication between humans?
- a) Hear
- b) Speech
- c) Smell
- d) None of the mentioned
- 10. What kind of signal is used in speech recognition?
- a) Electromagnetic signal
- b) Electric signal
- c) Acoustic signal
- d) Radar
- 11. What is viewed as problem of probabilistic inference?
- a) Speech recognition
- Speaking (طر
- c) Hearing
- d) Utterance
- 12. Which specifies the prior probability of each utterance?
- ৰ) Sound model
- b) Model
- c) Language model
- d) All of the mentioned
- 13. Which model gives the probability of each word following each other word?
- a) Bigram model
- b) Diagram model
- c) Gram model
- d) Speech model
- 14. What is the study of how the language sounds?
- a) Speechology
- b) Biology
- c) Trilogy
- d) Phonology

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- 15. What are periodic changes in pressure that propagate through the air?
- a) Air waves
- b) Sound waves
- e Rate
- d) None of the mentioned
- 16. What is called as the properties of the signal that extend over interval?
- a) Hops
- b) Rate
- Frames
- d) All of the mentioned
- 17. Which is used to capture the internal structure of the phones?
- a) One-state phone model
- b) Two-state phone model
- Three-state phone mone
- d) All of the mentioned
- 18. Which are partially captured by triphone model?
- a) Articulation effects
- b) Coarticulation effects
- c) Both Articulation & Coarticulation effects
- d) None of the mentioned
- 19. What is full form of NLU?
  - a) Nature Language Understanding
- b) Natural Long Understanding
  - c) Natural Language Understanding
  - d) None of the Above
- 20. What is Morphological Segmentation?
- a) Does Discourse Analysis
- b) is an extension of propositional logic
- Separate words into individual morphemes and identify the class of the morphemes
- d) None of the Above
- 21. Which of the following is used to mapping sentence plan into sentence structure?
- a) Text planning
- b) Sentence planning
- c) Text Realization
- d) None of the Above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



d) Both B and C

# Indra Ganesan

# COLLEGE OF ENGINEERING





| 22. Which of the following is used study of construction of words from primitive meaningful units?   |
|--|
| a) Phonology b) Morphology c) Morpheme d) Shonology  |
| 23. Parts-of-Speech tagging determines   |
| 24. In linguistic morphology is the process for reducing inflected words to their root form.  a) Rooting b) Stemming c) Text-Proofing d) Both Rooting & Stemming |
| 25. Which of the following is demerits of Top-Down Parser?  a) It is hard to implement.  b) Slow speed c) inefficient  |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





Medurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 Approved by AICTE, NewDelhi & Affiliated to Ama University, Chentol
NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Year/Sem:

AU Register Number:

## Value Added Course

"Course on Matlab"

## **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)**

- 1. MATLAB stands for?
- a) matrix laboratory
- b) math library
- c) matric library
- d) matrix library
- 2. Which command is used to clear a command window?
- a) clear
- b) close all
- c) clc
- d) clear all
- 3. To determine whether an input is MATLAB keyword, command is?
- a) is keyword
- b) key word
- c) input word
- d) isvarname
- 4. Command used to display the value of variable x.
- a) displayx
- b) disp(x)
- c) disp x
- d) vardisp('x')

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Menikandam, Tinichirappelli - 620 012 Approved by AICTE, NewDelin & Affiliated to Arma University, Chemist NAAC Accredited, 2(F) Status Institution by UGC



# 5. Which of the following statements shows the result of executing the following line in the editor window?

size = [13]' size(size)

- a) error
- b) 13
- c) 3 1
- d) 3 3

## 6. Executing in the command window the following code returns.

a = [1:3]' size(a)

- a) error message
- b) 13
- c) 3 1
- d) 31

## 7. Command is used to save command window text to file.

- a) saveas
- b) texttofile
- c) diary
- d) todiary

## 8. Executing in the editor window the following code returns.

a = 1;  $\sin(a)$  a = 2;

- a) 0.4815
- b) 0.8415
- c) 1
- d) 0.9093

## 9. To stop the execution of a MATLAB command, used keys?

- a) ctrl+c
- b) ctrl+s
- c) ctrl+b
- d) ctrl+enter

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal







## 10. Which is the invalid variable name in MATLAB?

- a) x6
- b) last
- c) 6x
- d) z

# 11. What would be the output of the following code (in editor window)?

- A = [01; 10]
- B=2

,

C = A + B

- a)
  - 1 2
- 4 5
- b)
  - 2 3
  - 3 2
- c)
  - 3 2
  - 3 2
- d)
  - 3 2
  - 2 3

# 12. What would be the output of the following code (in editor window)?

- A = [102];
- b = [307];
- c=a.\*b;

- a) [2 0 21]
- b) [3 0 14]
- c) [14 0 3]
- d) [7 0 3]

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTR, NewDelhi & Affiliated to Anna University, Chem NAAC Accredited, 2(F) Status Institution by UGC

a=1:5

 $c=a.^2$ 

- a) [1 25]
- b) [12345]
- c) [25 16 9 4 1]
- d) [1 4 9 16 25]

## 14. What would be the output of the following code (in editor window)?

A = [1]

;2

0 :3

;4]

B = [1]C=A\*B

a) 0

- b) [1 0 0 0]
- c) 3
- d) [1200]

## 15. What would be the output of the following code (in editor window)?

$$A = [1 2; C = A^2]$$

3

- a) [7 10; 15 22]
- b) [1 4; 9 16]
- c) [169; 41]
- d) [22 15; 10 7]

## 16. What would be the output of the following code (in editor window)?

A=1:5;

B=cumprod(A)

- a) b=[1 2 6 24 120]
- b) b=[12345]
- c) b=[54321]
- d) b=[120 24 6 2 1]

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Medural Mein Road (NH-45B), Manikandam, Tiruchirappalii - 620 012
Approved by AICTE, NewDelhil & Affiliated to Arma University, Chemical
NAAC Accredited, 2(F) Status Institution by UGC



## 17. Create an array of logical values.

A = [true false true; true true false]

A = 101

110

 $B = \operatorname{cumprod}(A,2)$ 

## 18. Find the cumulative product of the rows of A.

a)

 $\mathbf{B} = 1$ 0

> 0 1

b)

B = 1

1 1

c)

B = 1

1 1 1

d)

 $B = 1 \quad 1 \quad 0$ 

1 1 0

A = 147

258

369

B = cumsum(A)

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

a)





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chernal
NAAC Accredited, 2(F) Status Institution by UGC

- $B = 1 \ 4 \ 7$ 
  - 3 8 15
  - 6 15 24
- b)
- $B = 1 \ 4 \ 7$ 
  - 4 9 15
  - 4 15 24
- c)
- $B = 1 \ 4 \ 7$ 
  - 3 9 15
  - 6 15 29
- d)
- $B = 1 \ 4 \ 7$ 
  - 3 9 15
  - 6 15 24

## 19. Create a 4-by-2-by-3 array of ones and compute the sum along the third dimension.

A = ones(4,2,3);

S = sum(A,3)

a)

S=3 3

3 3

3 3

Dr. G. Balakrishnan, M.E., Pn.D.,

Principal





Medurai Main Road (NH-45B), Manikandam, Truchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemical NAAC Accredited, 2(F) Status Institution by UGC

3 3

| ŧ. | ١  |
|----|----|
| O  | IJ |

- S = 3
  - 3 4
  - 3 4
  - 3 4
- c)
- S=2 3
  - 2 3
  - 2 3
  - 2 3
- d)
- S = 7 3
  - 5 3
  - 6 3
  - 3 3

20. Round each value in a duration array to the nearest number of seconds greater than or equal to that value.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





Medural Mein Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhl & Affiliated to Arma University, Chemist NAAC Accredited, 2(F) Status Tostfeetloo by UGC

a)

Y1 = 08:29:02.00 08:30:02.00 08:31:02.00

 $Y2 = 09:00:00.00 \quad 09:00:00.00 \quad 09:00:00.00$ 

b)

 $Y1 = 08:29:02.00 \quad 08:30:02.00 \quad 08:31:02.00$ 

 $Y2 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$ 

c)

 $Y1 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$ 

 $Y2 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$ 

d)

Y1 = 008:29:01.23 08:30:01.23 08:31:01.23

 $Y2 = 09:00:00.00 \quad 09:00:00.00 \quad 09:00:00.00$ 

### 21. What would be the output of the following code (in editor window)?

X = [1.4+2.3i3.1-2.2i -5.3+10.9i]

X = 1,4000 + 2.3000i3.1000 - 2.2000i -5.3000+10.9000i

Y = fix(X)

a) Y = 1.0000 + 2.0000i 3.0000 - 4.0000i - 5.0000 + 10.0000i

b)  $Y = 2.0000 + 3.0000i \ 3.1000 - 2.2000i \ -5.3000 + 10.9000i$ 

c)  $Y = 1.0000 + 2.0000i \cdot 3.0000 - 2.0000i \cdot 5.0000 + 10.0000i$ 

d)  $Y = 2.0000 + 3.0000i \ 3.1000 - 2.2000i \ -5.3000 + 10.9000i$ 

### 22. Compute 24 modulo 5.

b = mod(24,5)

a) b = 3

b) b = 4

c) b = 5

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

IG Valley, Madurai Trichy-620 012.

Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tinichirappalli - 620 012
Approved by AICTE, NewDellid & Affiliated to Arma University, Chemnal
NAAC Accredited, 2(F) Status Institution by UGC

d) b = 6

# 23. What would be the output of the following code (in editor window)?

X = [123;456;789];

Y = [987;654;321];

R = rem(X,Y)

a)

R=1 2 1

4 0 9

1 0 0

b)

R=1 2 3

3 0 2

1 0 0

c)

R=1 2 3

4 1 2

1 1 0

d)

R=1 2 3

4 0 2

1 0 0

Indicate an College of Engineering
Indicate and College of Engineering
Main Road
Manikandam, Trichy-620 012.
Manikandam, Trichy-620 012.





Medurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Claymod NAAC Accredited, 2(F) Status Institution by UGC

| 24  | . If one | operand   | l is a scalar | and the   | other is n | ot, then N | ATLAB applic   | es the scalar to | every |
|-----|----------|-----------|---------------|-----------|------------|------------|--|------------------|-------|
| ele | ment o   | f the oth | er operand.   | . This pr | operty is  | known as   | - Control of the Cont |                  |       |

- a) operand divergence
- b) scalar expansion
- c) vector expansion
- d) dimension declaration
- 25. What happens if we don't assign a variable to an expression which evaluates a numerical value?
- a) MATLAB shows error
- b) Nothing happens
- c) The evaluated values are assigned to a variable automatically
- d) Depends on the numerical value

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Principal
Indra Ganesan College of Engineering
Indra Ganesan Madurai Main Road
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012





Medurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelin & Affiliated to Aurus University, Chercust NAAC Accredited, 2(F) Status Lastitution by UGC

## Value Added Course

"Course on Matlab"

### **ANSWER KEY**

| 1 | a | 6  | С | 11 | b | 16 | a        | 21 | c |
|---|---|----|---|----|---|----|----------|----|---|
| 2 | c | 7  | С | 12 | b | 17 | b        | 22 | b |
| 3 | a | 8  | В | 13 | d | 18 | d        | 23 | d |
| 4 | b | 9  | A | 14 | c | 19 | <b>a</b> | 24 | b |
| 5 | a | 10 | С | 15 | a | 20 | a        | 25 | a |

T. Kalaivan

**VAC Coordinator** 

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Principal
Principal
Principal
Andra Ganesan College of Engineering
Manikandam, Trichy-620 022.

Manikandam, Trichy-620 022.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Rajesh-k

Year/Sem: I /II

**AU Register Number:** 

811221108029

## Value Added Course

"Course on Matlab"

## MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)



- 1. MATLAB stands for?
- a) matrix laboratory
- b) math library
- (c) matric library
- d) matrix library
- 2. Which command is used to clear a command window?
- a) clear
- b) close all
- c) clc
- d) clear all
- 3. To determine whether an input is MATLAB keyword, command is?
- (a) is keyword
- b) key word
- c) input word
- d) isvarname
- 4. Command used to display the value of variable x.
- a) displayx
- b) disp(x)
- c) disp x
- d) vardisp('x')

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madurai Main Road (NH-458), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, C NAAC Accredited, 2(F) Status Institution by UGC

5. Which of the following statements shows the result of executing the following line in the editor window?

size = [13]size(size)

- a) error
- b) 13
- c) 3 1
- d) 3 3

6. Executing in the command window the following code returns.

a = [1:3]' size(a)

- a) error message
- b) 13
- c) 3 1
- d) 31

7. Command is used to save command window text to file.

- a) saveas
- b) texttofile
- c) diary
- d) todiary

8. Executing in the editor window the following code returns.

a = 1;

sin(a)

- a) 0.4815
- b) 0.8415
- c) 1

d) 0.9093

9. To stop the execution of a MATLAB command, used keys?

- a) ctrl+c
- b) ctrl+s
- c) ctrl+b
- d) ctrl+enter

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Maduran Main Road

Manikandam, Trichy 620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

### 10. Which is the invalid variable name in MATLAB?

- a) x6
- b) last
- c) 6x
- d) z

### 11. What would be the output of the following code (in editor window)?

- A = [01; 10]
- B=2
- C = A + B

- a)
  - 1 2
  - 4 5
- (b)
  - 2 3
  - 3 2
- c)
  - 3 2
  - 3 2
- d)
  - 3 2
  - 2 3

### 12. What would be the output of the following code (in editor window)?



b = [307];

c=a.\*b;

(a)[2 0 21]

b) [3 0 14]

c) [14 0 3]

d) [7 0 3]

Dr. G. Balakrishnan, M.E., Ph.D.,





Madurei Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

### 13. What would be the output of the following code (in editor window)?

a=1:5

$$c=a.^2$$

- a) [1 25]
- b) [1 2 3 4 5]
- c) [25 16 9 4 1]
- d) [1 4 9 16 25]

1

;2

## 14. What would be the output of the following code (in editor window)?

A = [1

$$\mathbf{B} = [1]$$

C=A\*B

- a) 0
- b) [1 0 0 0]
- c) 3
- d)[1 2 0 0]

## 15. What would be the output of the following code (in editor window)?

(A)=[1

a) [7 10; 15 22]

- b) [1 4; 9 16]
- c) [16 9; 4 1]
- d) [22 15; 10 7]

### 16. What would be the output of the following code (in editor window)?

A=1:5;

B=cumprod(A)

a) b=[1 2 6 24 120]

b) b=[1 2 3 4 5]

- c) b=[5 4 3 2 1]
- d) b=[120 24 6 2 1]

Dr. G. Balakrishnan, M.E. Ph.D.

Principal





Medurei Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC

### 17. Create an array of logical values.

A = [true false true; true true false]

A = 101

110

B = cumprod(A,2)

### 18. Find the cumulative product of the rows of A.

a)

 $B = 1 \quad 0 \quad 0$ 

0 1 0



 $B = 1 \quad 0 \quad 0$ 

1 1 0

c)

 $B = 1 \quad 0 \quad 0$ 

1 1 1

d)

 $B = 1 \quad 1 \quad 0$ 

1 1 0

A = 147

258

369

B = cumsum(A)

Dr. G. Balakrishnan, M.E., Pil.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





Medurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemist NAAC Accredited, 2(F) Status Institution by UGC

- B = 1 4 7
  - 3 8 15
  - 6 15 24
- b)
- B = 1 4 7
  - 4 9 15
  - 4 15 24
- c)
- B = 1 4 7
  - 3 9 15
  - 6 15 29
- d)
- B = 1 4 7
  - 3 9 15
  - 6 15 24

19. Create a 4-by-2-by-3 array of ones and compute the sum along the third dimension.

A = ones(4,2,3);

S = sum(A,3)

a)

S = 3 3

- 3 3
- 3 3

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

3 3

|   | b)    |   |  |   |  |  |  |  |
|---|-------|---|--|---|--|--|--|--|
|   | S = 3 | 4 |  |   |  |  |  |  |
|   | 3     | 4 |  |   |  |  |  |  |
|   | 3     | 4 |  |   |  |  |  |  |
|   | 3     | 4 |  |   |  |  |  |  |
| ( | e)    |   |  |   |  |  |  |  |
| , | S=2   | 3 |  |   |  |  |  |  |
|   | 2     | 3 |  |   |  |  |  |  |
|   | 2     | 3 |  | 1 |  |  |  |  |
|   | 2     | 3 |  | ~ |  |  |  |  |
| d |       |   |  |   |  |  |  |  |
| S | = 7   | 3 |  |   |  |  |  |  |
|   | 5     | 3 |  |   |  |  |  |  |
|   | 6     | 3 |  |   |  |  |  |  |
|   |       |   |  |   |  |  |  |  |

20. Round each value in a duration array to the nearest number of seconds greater than or equal to that value.

3

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.







 $Y1 = 08:29:02.00 \quad 08:30:02.00 \quad 08:31:02.00$ 

 $Y2 = 09:00:00.00 \quad 09:00:00.00 \quad 09:00:00.00$ 

b)

 $Y1 = 08:29:02.00 \quad 08:30:02.00 \quad 08:31:02.00$ 

 $Y2 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$ 

c)

 $Y1 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$ 

 $Y2 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$ 

d)

 $Y1 = 008:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$ 

 $Y2 = 09:00:00.00 \quad 09:00:00.00 \quad 09:00:00.00$ 

### 21. What would be the output of the following code (in editor window)?

X = [1.4+2.3i3.1-2.2i -5.3+10.9i]

X = 1.4000 + 2.3000i3.1000 - 2.2000i - 5.3000 + 10.9000i

Y = fix(X)

a)  $Y = 1.0000 + 2.0000i \ 3.0000 - 4.0000i \ -5.0000 + 10.0000i$ 

(b)  $Y = 2.0000 + 3.0000i \ 3.1000 - 2.2000i \ -5.3000 + 10.9000i$ 

c)  $Y = 1.0000 + 2.0000i \cdot 3.0000 - 2.0000i \cdot -5.0000 + 10.0000i$ 

d)  $Y = 2.0000 + 3.0000i \ 3.1000 - 2.2000i \ -5.3000 + 10.9000i$ 

### 22. Compute 24 modulo 5.

b = mod(24,5)

a) b = 3

(b)b = 4

c) b = 5

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC

d) b = 6

## 23. What would be the output of the following code (in editor window)?

X = [123;456;789];

Y = [987;654;321];

R = rem(X,Y)

a)

 $R = 1 \quad 2 \quad 1$ 

4 0 9

1 0 0

b)

 $R = 1 \quad 2 \quad 3$ 

3 0 2

1 0 0

c)

 $R = 1 \quad 2 \quad 3$ 

4 1 2

1 1 0

(d)

 $R = 1 \quad 2 \quad 3$ 

4 0 2

1 0 0

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



d) Depends on the numerical value

# Indra Ganesan



Medurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

| 24. If one operand is a scalar and the other is not, then MATLAB applies the scalar to every |
|--|
| element of the other operand. This property is known as                                      |
| a) operand divergence  |
| b) scalar expansion  |
| c) vector expansion  |
| d) dimension declaration   |
|  |
| 25. What happens if we don't assign a variable to an expression which evaluates a numerical  |
| value?   |
| MATLAB shows error   |
| b) Nothing happens   |
| c) The evaluated values are assigned to a variable automatically                             |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy=620 012.



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student: **AU Register Number:** 

C.LookupFunctions. D.IndexFunctions.

9. Whichistheinternalrateofreturn?

A. theinterestrateatwhichallcashflowshaveanetpresentvalueofzero B. theinterestrateatwhichallcashflowshaveapositivenetpresentvalue

Year/Sem:

ValueAddedCourseon"ExcelForBusinessAnalytics" MCQ QUESTIONS (25X4 = 100 Marks)

1. The intersection of a column and a row in MSEx celwork sheet is known as.

| A. Kow  |                                      |
|---|--------------------------------------|
| B. Cell   |                                      |
| C. Column   |                                      |
| D. Tab  |                                      |
| 2. InMicrosoftExcelspreadsheets,rowsarelabelledas               |                                      |
| A. 1,2,3,   |                                      |
| B. A,B,C,   |                                      |
| C. A1,B1,C1   |                                      |
| D. I,II,III,  |                                      |
| 3. Microsoft Excel uses thefunctiontocalculatetheresul          | tsinthedata table                    |
| A. 'RESULT'   |                                      |
| B. 'CALTAB'   |                                      |
| C. 'TABLE'  |                                      |
| D. 'AUTOSUM'  |                                      |
| 4functioninMSExcelworksheetrepresentsthetotalnur                | mher(e)afentriesin                   |
| the cell(s).  | mber (systema tesm                   |
| A. SUM  |                                      |
| B. AVG  |                                      |
| C. COUNT  |                                      |
| D. TOTAL  |                                      |
| 5isNOTaFunctioninMicrosoftExcelspreadsheets.                    |                                      |
| A. HYPERLINK  |                                      |
| B. COUNTIF  |                                      |
| C. MIN  |                                      |
| D. AVG  |                                      |
| 6. InMSExcelspreadsheet,Datacanbesortedusing                    |                                      |
| A. Filter function  | 10 .                                 |
| B. ARRAYfunction  |                                      |
| C. Lookupfunction   | Dr. G. Balakrishnan, M.E., Ph.D.     |
| D. Operatorfunction   | Principal                            |
|   | Indra Ganesan College of Engineering |
| 7. The_featureofmsexcelquicklycompletesaseriesof data.          | IG Valley, Madurai Main Road         |
| A. Auto Filter  | Manikandam, Trichy-620 012.          |
| B. AutoComplete   |                                      |
| C. AutoFill D. AutoSum  |                                      |
| 8. WhichoftheseisnotatypeoffunctionusedinExcelbyabusinessanaly: | ct?                                  |
| A.Logical Functions   | SL:                                  |
| R Financial Functions   |                                      |



COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



 $\hbox{C. the discount rate at which all cash flows have an etpresent value of zero} \\$ 

D. the discountrate at which all cash flows have an egative net present value **10. Which keywill create an absolute instead of a relative cell reference?** 

A. Ctrl+A

B. Esc

C. F4

D.F1

## 11. Whatisthefuturevalueforafullyamortizedloan?

A.zero

B.thevalueoftheinterestonly

C.theprincipalplusinterest

D.theoutstandingprincipal

# 12. WhichExcelformulacantakeuptofiveargumentsandthencalculatethefuturevalueofan investment?

**A.RECEIVED** 

**B.PRICEMAT** 

C.FV

**D.FVSCHEDULE** 

## 13. Whatistheformula for calculating the value of a perpetuity?

A.payment/(discount rate - growth rate)

B.(discountrate-growthrate)/payment

C.payment/interest rate

D.payment/(growthrate-discountrate)

# 14. Ifyouinvested\$10,000withanannualcompoundinterestrateof5percent,howmuchwill it be worth after 10 years?

A.16289

B.11365

C.10761

D.15500

## $15. \ Which logical function returns TRUE if all arguments evaluate TRUE; FALSE if not?$

A.OR

**B.AND** 

C.IF

**D.ANDIF** 

## 16. Whichfunctionisusedtogetadatenworkingdaysinthefutureorpast?

A.WORKDAY()

B.DAY()

C.WORKDATE()

D.DAYM()

# 17. Whatisthecorrectformulatocalculatethetotalrevenueforacompany, given the unit price and quantity sold?

- a)=SUM(UnitPrice,QuantitySold)
- b)=UnitPrice\*QuantitySold
- c)=AVG(UnitPrice,QuantitySold)
- d)=MIN(UnitPrice,QuantitySold)
- 18. Whichfunctionisusedtofindthehighestvalueinarangeof cells?
- a) MAX
- b) MIN
- c) AVERAGE
- d) COUNT
- 19. HowcanyoucopyaformulafromonecelltoanotherinExcel?
- a) PressCtrl+Cand Ctrl+V
- b) Right-clickandselect"Copy"and"Paste"

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- c) Dragthefillhandleacrossthedesiredcells
- d) Type"=COPY()" in
- 20. HowcanyouassignamacrotoabuttoninExcel?
- a) Right-clickonthebuttonandchoose"AssignMacro."
- b) Gotothe"Developer"tabandclickon"Macro Options."
- c) Usethe "ALT" keyalong with a designated letter key combination.
- d) Openthe "Properties" windowands elect the macrofrom the drop downmenu.
- 21. Which Excelfunction is used to find the average of a range of cells?
- a) SUM
- b) AVERAGE
- c) COUNT
- d) MAX
- 22. WhatisthecorrectformulatocalculatethestandarddeviationofadatasetinExcel?
- a)=STDEV()
- b)=VAR()
- c)=AVERAGE()
- d)=SUM()
- 23. HowcanyouroundanumbertothenearestwholenumberinExcel?
- a)=ROUNDUP()
- b) =ROUNDDOWN()
- c)=ROUND()
- d)=CEILING()
- 24. WhatisthepurposeofaPivotTablein Excel?
- a) Tocreatedynamic formulas
- b) Tosortdatainascendingorder
- c) Tosummarizeandanalyzelargedata sets
- d) Toperformcomplexcalculations
- 25. HowcanyouchangethesummaryfunctionofavaluefieldinaPivot Table?
- a) Right-clickonthevaluefield, select "ValueFieldSettings," and choose the desired summary function.
- $b)\ Gotothe "Analyze" tab, click on "Field Settings," and select the desired summary function.$
- $c)\ Double-click on the value field and the summary function options will appear.$
- d) Selectthevaluefield,gotothe"Design"tab,andchoosethedesiredsummaryfunctionfrom the drop-down menu.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



9. Whichistheinternalrateofreturn?

 $A.\ the interestrate at which all cash flows have an expresent value of zero$ 

## COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student: Javanya M. AU Register Number: 811221630

Year/Sem: RMBO.

# ValueAddedCourseon"ExcelForBusinessAnalytics" MCO

| Official One (222-   | nytics MCQ   |
|--|--|
| QUESTIONS (25X4 = 100 Marks)                                     |  |
| 1. TheintersectionofacolumnandarowinMSExcelworkshee              | tisknownas   |
| 11. 19574  |  |
| <b>&amp;</b> Cell  |  |
| C. Column  |  |
| D. Tab   |  |
| 2. InMicrosoftExcelspreadsheets,rowsarelabelledas                |  |
| A. 1,2,3,  |  |
| (B) A,B,C,   |  |
| C. A1,B1,C1  |  |
| D. I,II,III,   |  |
| 3. Microsoft Excel uses thefunctiontocalculatetheres A. 'RESULT' | of the transfer of the transfe |
| A. 'RESULT'  | suitsinthedata table.  |
| B. 'CALTAB'  |  |
| CTABLE'  |  |
| D. 'AUTOSUM'   |  |
|  |  |
| 4functioninMSExcelworksheetrepresentsthetotaln the cell(s).      | umber(s)ofentriesin  |
| A. SUM   |  |
| B. AVG   |  |
| COUNT  |  |
| D. TOTAL   |  |
|  |  |
| 5isNOTaFunctioninMicrosoftExcelspreadsheets. A. HYPERLINK        | 10   |
| B. COUNTIF   | 16   |
| C. MIN   | · Co   |
| O AVG  | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| 6. InMSExcelspreadsheet,Datacanbesortedusing                     | Principal  |
| A. Filter function   | Indra Ganesan College of Engineering   |
| B. ARRAYfunction   | IG Valley, Madurai Main Road   |
| C.)Lookupfunction  | Manikandam, Trichy-620 012.  |
| D. Operatorfunction  |  |
|  |  |
| 7. The_featureofmsexcelquicklycompletesaseriesof data.           |  |
| A. Auto Filter   |  |
| B. AutoComplete  |  |
| (CAutoFill   |  |
| D. AutoSum   |  |
| 8. WhichoftheseisnotatypeoffunctionusedinExcelbyabusinessanaly   | vet?   |
| y61-cai 1 airctions  | ,  |
| Grancial Functions   |  |
| C.LookupFunctions.   |  |
| D.IndexFunctions.  |  |



## COLLEGE OF ENGINEERING

Medurai Main Road (NH-45B), Menikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Affiliated to Anna University, Chemnai NAAC Acceedited, 2(B) Status Institution by UGC



(2) the discountrate at which all cash flows have an et present value of zero D. thediscountrateatwhichallcashflowshaveanegativenetpresentvalue

10. Whichkeywillcreateanabsoluteinsteadofarelativecellreference?

A. Ctrl+A

B. Esc

C) F4 D.F1

11 Whatisthe future value for a fully amortized loan?

Azero

B.thevalueoftheinterestonly

C.theprincipalplusinterest

D.theoutstandingprincipal

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Dr. G. Balakrishnan, M.E., Ph.D.,

12. Which Excel formula can take up to five arguments and then calculate the future value of an excellent control of the con

\_\_investment?

ARECEIVED

**B.PRICEMAT** 

C.FV

D.FVSCHEDULE

13. Whatistheformula for calculating the value of a perpetuity?

(Apayment/(discount rate - growth rate)

B.(discountrate-growthrate)/payment

C.payment/interest rate

D.payment/(growthrate-discountrate)

14. Ifyouinvested\$10,000withanannualcompoundinterestrateof5percent,howmuchwill

it be worth after 10 years?

(A)16289

B.11365

C.10761

D.15500

15. Which logical function returns TRUE if all arguments evaluate TRUE; FALSE if not?

(A)OR

**B.AND** 

C.IF

D.ANDIF

16. Whichfunctionisusedtogetadatenworkingdaysinthefutureorpast?

(A)WORKDAY()

B.DAY()

C.WORKDATE()

D.DAYM()

17. Whatisthecorrectformulatocalculatethetotalrevenueforacompany, given the unit price and quantity sold?

a)=SUM(UnitPrice,QuantitySold)

(b)=UnitPrice\*QuantitySold

c)=AVG(UnitPrice,QuantitySold)

d)=MIN(UnitPrice,QuantitySold)

18. Whichfunctionisusedtofindthehighestvalueinarangeof cells?

**TAMAX** 

D) MIN

c) AVERAGE

d) COUNT

19. Howcanyoucopyaformula from one cell to another in Excel?

a) PressCtrl+Cand Ctrl+V

b) Right-clickandselect"Copy"and"Paste"



# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Aman University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



(c) Dragthefillhandleacrossthedesiredcells

d) Type"=COPY()" in

20. HowcanyouassignamacrotoabuttoninExcel?

Right-clickonthebuttonandchoose "AssignMacro."

b) Gotothe"Developer"tabandclickon"Macro Options."

c) Usethe "ALT" keyalong with a designated letter key combination.

d) Openthe "Properties" windowands elect the macrofrom the drop downmenu.

21. WhichExcelfunctionisusedtofindtheaverageofarangeof cells?

a) SVM

**B** AVERAGE

CCOUNT

d) MAX

 ${\bf 22.} \ {\it W} hat is the correct formula to calculate the standard deviation of a data set in Excel?$ 

(a)¥STDEV()

Б)=VAR()

c)=AVERAGE()

d)=SUMO

 $23. \ How can your ound a number to the near est whole number in Excel?$ 

X a)=ROUNDUPO

6)=ROUNDDOWN()

c)=ROUND()

d)=CEILING()

24. WhatisthepurposeofaPivotTablein Excel?

a) Tocreatedynamic formulas

b) Tosortdatainascendingorder

Tosummarizeandanalyzelargedata sets

d) Toperformcomplexcalculations

25. HowcanyouchangethesummaryfunctionofavaluefieldinaPivot Table?

(a) Right-clickonthevaluefield, select "Value Field Settings," and choose the desired summary

 $b)\ Gotothe "Analyze" tab, click on "Field Settings," and select the desired summary function.$ 

 $c)\ Double-click on the value field and the summary function options will appear.$ 

 $d) \ Select the value field, go to the "Design" tab, and choose the desired summary function from the$ 

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Truchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Chhediscountrateatwhichallcashflowshaveanetpresentvalueofzero D. thediscountrateatwhichallcashflowshaveanegativenetpresentvalue 10. Whichkeywillcreateanabsoluteinsteadofarelativecellreference?

A. Ctrl+A

B. Esc

(C)F4

D.F1

11. Whatisthefuturevalueforafullyamortizedloan?

(A)zero

B.thevalueoftheinterestonly

C.theprincipalplusinterest

D.theoutstandingprincipal

12. Which Excel for mula can take up to five arguments and then calculate the future value of an investment?

A.RECEIVED

**B.PRICEMAT** 

(C)rv

D.FVSCHEDULE

13. Whatistheformula for calculating the value of a perpetuity?

Apayment/(discount rate - growth rate)

B.(discountrate-growthrate)/payment

C.payment/interest rate

D.payment/(growthrate-discountrate)

14. Ifyouinvested\$10,000withanannualcompoundinterestrateof5percent,howmuchwill it he worth after 10 years?

it be worth after 10 years?

A16289

B.11365

C.10761

D.15500

 $15. \ Which logical function returns TRUE if all arguments evaluate TRUE; FALSE if not?$ 

A.OR

BAND

C.IF

D.ANDIF

 $16. \ Which function is used to get a date nworking days in the future or past?$ 

A.WORKDAY()

B.DAYO

C.WORKDATE()

D.DAYM()

17. Whatisthecorrectformulatocalculatethetotalrevenueforacompany, given the unit price and quantity sold?

a) = 8UM(UnitPrice, QuantitySold)

(b)=UnitPrice\*QuantitySold

c)=AVG(UnitPrice,QuantitySold)

d)=MIN(UnitPrice,QuantitySold)

18. Whichfunctionisused to find the highest value in a range of cells?

(a) MAX

DI MIN

c) AVERAGE

d) COUNT

19. HowcanyoucopyaformulafromonecelltoanotherinExcel?

a) PressCtrl+Cand Ctrl+V

b) Right-clickandselect"Copy"and"Paste"

Dr. G. Balakrishnan, M.E., Ph.D.,



D.IndexFunctions.

9. Whichistheinternalrateofreturn?

 $A.\ the interestrate at which all cash flows have an expresent value of zero$ B. theinterestrateatwhichallcashflowshaveapositivenetpresentvalue

# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student : Sivakumar . P.

Year/Sem: I MBO.

AU Register Number: 81122283/022,

| ValueAddedCourseon"ExcelForBusinessAnaly                        | vtics" MCO  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
| QUESTIONS (25X4 = 100 Marks)                                    |   |  |  |  |  |  |  |
| 1. TheintersectionofacolumnandarowinMSExcelworksheetisknownas.  |   |  |  |  |  |  |  |
| n. now  | sknownas.   |  |  |  |  |  |  |
| (B) Cell  |   |  |  |  |  |  |  |
| C. Column   |   |  |  |  |  |  |  |
| D. Tab  |   |  |  |  |  |  |  |
| 2. InMicrosoftExcelspreadsheets,rowsarelabelledas               | Dr. C. Pololovil  |  |  |  |  |  |  |
| A. 1,2,3,   | Dr. G. Balakrishnan, M.E., Ph.D.,                                 |  |  |  |  |  |  |
| (B)A,B,C,   | Principal Indra Ganacan Call                                      |  |  |  |  |  |  |
| C. A1,B1,C1   | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |  |  |  |  |  |  |
| D. I,II,III,  | Manikandam Tricky can are   |  |  |  |  |  |  |
| 3. Microsoft Excel uses thefunctiontocalculatetheresu           | Table 13. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.                  |  |  |  |  |  |  |
| A. 'RESULT'   | itsinthedata table.   |  |  |  |  |  |  |
| B. 'CAŁTAB'   |   |  |  |  |  |  |  |
| CYTABLE'  |   |  |  |  |  |  |  |
| D. 'AUTOSUM'  |   |  |  |  |  |  |  |
| 4functioninMSExcelworksheetrepresentsthetotalnuthe cell(s).     | mh()  |  |  |  |  |  |  |
| the cell(s).  | mber(s)ofentriesin  |  |  |  |  |  |  |
| A. SUM  |   |  |  |  |  |  |  |
| B. Ay&  |   |  |  |  |  |  |  |
| COUNT   |   |  |  |  |  |  |  |
| D. TOTAL  |   |  |  |  |  |  |  |
| 5isNOTaFunctioninMicrosoftExcelspreadsheets.                    |   |  |  |  |  |  |  |
| A. HIPERLINK  |   |  |  |  |  |  |  |
| B. COUNTIF  |   |  |  |  |  |  |  |
| ©MIN .  |   |  |  |  |  |  |  |
| D. AVG  |   |  |  |  |  |  |  |
| 6. InMSExcelspreadsheet,Datacanbesortedusing                    |   |  |  |  |  |  |  |
| A. Priter function  |   |  |  |  |  |  |  |
| B. ARRAYfunction  |   |  |  |  |  |  |  |
| C. Lookupfunction   |   |  |  |  |  |  |  |
| D. Operatorfunction   |   |  |  |  |  |  |  |
| 7. The_featureofmsexcelquicklycompletesaseriesof data.          |   |  |  |  |  |  |  |
| A. Auto Filter  |   |  |  |  |  |  |  |
| B. AutoComplete   |   |  |  |  |  |  |  |
| AutoFill  |   |  |  |  |  |  |  |
| D. AutoSum  |   |  |  |  |  |  |  |
| 8. WhichoftheseisnotatypeoffunctionusedinExcelbyabusinessanalys | :17   |  |  |  |  |  |  |
| in agreed 1 directions  |   |  |  |  |  |  |  |
| FinancialFunctions  |   |  |  |  |  |  |  |
| C.LookupFunctions.  |   |  |  |  |  |  |  |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(E) Status Institution by UGC



- (C) Dragthefillhandleacrossthedesiredcells
- d) Type"=COPY()" in
- 20. HowcanyouassignamacrotoabuttoninExcel?
- a) Right-clickonthebuttonandchoose"AssignMacro."
- (6) Gotothe "Developer" tabandclickon "Macro Options."
- c) Usethe "ALT" keyalong with a designated letter key combination.
- d) Openthe "Properties" windowands elect the macrofrom the drop downmenu.
- 21. Which Excelfunction is used to find the average of a range of cells?
- al SUM
- (6) AVERAGE
- c) COUNT
- d) MAX
- 22. What is the correct formula to calculate the standard deviation of a dataset in Excel?
- **Æ**STDEV()
- b)=VAR()
- c)=AVERAGE()
- d)=SUM()
- $23. \ How can your ound a number to the near est whole number in Excel?$
- a)=ROUNDUP()
- b) = ROUNDDOWN()
- (C)=ROUND()
- d)=ceiling()
- 24. WhatisthepurposeofaPivotTablein Excel?
- a) Tocreatedynamic formulas
- (b) Tosortdatainascendingorder
- c) Tosummarizeandanalyzelargedata sets
- d) Toperformcomplexcalculations
- 25. HowcanyouchangethesummaryfunctionofavaluefieldinaPivot Table?
- Right-clickonthevaluefield,select"ValueFieldSettings,"andchoosethedesiredsummary function.
- $b)\ Gotothe "Analyze" tab, click on "Field Settings," and select the desired summary function.$
- $c) \ Double-click on the value field and the summary function options will appear.$
- d) Selectthevaluefield, gotothe "Design" tab, and choose the desired summary function from the drop-down menu.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



# ValueAddedCourseon"ExcelForBusinessAnalytics"

### **ANSWERKEY**

| 1 | В | 6  | A | 11 | A | 16 | A | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | В | 7  | C | 12 | С | 17 | В | 22 | A |
| 3 | С | 8  | В | 13 | A | 18 | A | 23 | C |
| 4 | С | 9  | C | 14 | A | 19 | С | 24 | C |
| 5 | D | 10 | C | 15 | В | 20 | A | 25 | A |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

**Indra Ganesan College of Engineering** IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AlCTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Hydroponics"

MCO QUESTIONS (25X4 = 100 Marks)

The technique of cultivating plants in a nutrient solution without the use of soil is known as Hydroponics. Hydroponics is an alternative to the traditional cultivation methodologies and is fast replacing them.

- 1. Which of these is the fibre obtained from the coconut's husk
- (a) Perlite
- (b) Vermiculture
- (c) Coir
- (d) Rockwoo
- 2. The form of hydroponics that does not require a growing medium at all is
- (a) Aquaculture
- (b) Static solution culture
- (c) Medium culture
- (d) Aeroponics
- 3. Plants with larger roots can be cultivated with which of the following types of hydroponics
- (a) Ebb and flow system
- (b) Drip system
- (c) Nutrient Film technique
- (d) None of these

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 612.

4. Hydroponics is a method of cultivation of plants without the use of



(c) Necrosis

# Indra Ganesan



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellui & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

| (a) water  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| (b) air  |  |  |  |  |  |  |
| (c) soil   |  |  |  |  |  |  |
| (d) sunlight   |  |  |  |  |  |  |
| 5. Which of the following is not true about hydroponics?                       |  |  |  |  |  |  |
| (a) Requires high investment   |  |  |  |  |  |  |
| (b) Technical knowledge required   |  |  |  |  |  |  |
| (c) Can be misused to cultivate banned crops                                   |  |  |  |  |  |  |
| (d) Plants through hydroponics cannot be cultivated everywhere                 |  |  |  |  |  |  |
| 6. Salts and water in hydroponic plants are absorbed by                        |  |  |  |  |  |  |
| (a) Leaves   |  |  |  |  |  |  |
| (b) Stem   |  |  |  |  |  |  |
| (c) Roots  |  |  |  |  |  |  |
| (d) Outer Layer of plants  |  |  |  |  |  |  |
| 7. The scientist who used nutrient culture solution in hydroponic cultures was |  |  |  |  |  |  |
| (a) Knop   |  |  |  |  |  |  |
| (b) Sachs  Dr. G. Balakrishnan, M.E., Ph.D.,  Principal                        |  |  |  |  |  |  |
| (c) Wallace Indra Ganesan College of Engineering IG Valley, Madurai Main Road  |  |  |  |  |  |  |
| (d) Webster Manikandam, Trichy-620 012.  |  |  |  |  |  |  |
| 8. Deficiency of mineral nutrition does not cause which of these               |  |  |  |  |  |  |
| (a) Chlorosis  |  |  |  |  |  |  |
| (b) Etiolation   |  |  |  |  |  |  |





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

| (d) Shortening internode |  |
|--------------------------|--|
|                          |  |

| 9. Roots of a plant in hydroponics are submerged in a solution of dissolved |  |
|---|--|
|---|--|

- (a) fertilizers
- (b) oxygen
- (c) mineral salts
- (d) chemicals
- 10. Which of these plants may not be suitable for cultivation through hydroponics
- (a) Tomatoes
- (b) Carrot
- (c) Cucumber
- (d) Strawberries
- 11. Hydroponics is the major topic of which field?
- (a). Agriculture.
- (b). Horticulture.
- (c). Fish farming or fisheries.
- (d). Dairy farming.
- 12. Which one is the main field of this topic?
- (a). Aquaculture.
- (b). Aquaponics.
- (c). Hydrology.
- (d). All of the above.
- 13. Which is an ideal horticultural fruit crop for HP?
- (a). Strawberry.
- (b). Lemon.
- (c). Sapota.
- (d). Pineapple.
- 14. What is the main advantage of Hydroponics?

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-628 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

- (a). Decrease in nutrient use.
- (b). Decrease in soil use.
- (c). Decrease in water use.
- (d). All of the above.
- 15. Which of the following books describe this technique?
- (a). History of Agriculture.
- (b). A Natural History.
- (c). Horticulture: A Review.
- (d). None of the above.
- 16. Who wrote Sylva Sylvarum?
- (a). Benjamin Peary Pal.
- (b). George Washing Carver.
- (c). Norman Ernest Borlaug.
- (d). Francis Bacon.

Indra Ganesan College of Engineering

IG Valley, Madurai Main Read Manikandam, Trichy-628 012.

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

#### 17. Who developed soilless culture?

- (a). Julius von Sachs.
- (b). Wilhelm Knop.
- (c). Both a and b.
- (d). Justus von Liebig.
- 18. What is the term for the growth of terrestrial plants without soil in mineral nutrient solutions?
- (a). Solution culture.
- (b). Soilless culture.
- (c). Aquaculture.
- (d). Nutrient culture.
- 19. Who introduced the term hydroponics?
- (a). W. A. Setchell.
- (b). William Frederick Gericke.
- (c). Dennis Robert Hoagland.
- (d). None of the above.
- 20. Who introduced the term water culture?



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- (a). Arnon.
- (b). John Woodward.
- (c). Francis Bacon.
- (d). William Frederick Gericke.

#### 21. Who is the writer of Guide to Soilless Gardening?

- (a). William Frederick Gericke.
- (b). Vishwa Gopal Jhingran.
- (c). Dr. B.R. Pillai.
- (d). John Woodward.

#### 22. Who is the writer of The Water Culture Method for Growing Plants Without Soil?

- (a). George C. Clerk.
- (b). Arnon.
- (c). Sir Albert Howard.
- (d). Luther Burbank.

#### 23. Consider about sub-irrigation.

- (a). Artificial raising of the water table is necessary.
- (b). It is used in commercial greenhouses.
- (c). Water is reusable.

#### 24. Why is it necessary to exclude light from the containers?

- (a). To prevent algal growth in the nutrient solution.
- (b). To prevent fungal growth in the nutrient solution.
- (c). Both a and b.
- (d). To prevent drying of the nutrient solution.

#### 25. Consider about the Static solution culture:

- (a). Plants are grown in containers of nutrient solution.
- (b). If there is no aeration, then solution level should high.
- (c). If there is no aeration, then solution level should low.
- (d). A float valve automatically regulate the amount of solution.

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

#### Value Added Course on HYDROPHONICS

#### **ANSWER KEY**

| 1 | a | 6  | b  | 11 | С | 16 | a | 21 | a |
|---|---|----|----|----|---|----|---|----|---|
| 2 | С | 7  | С  | 12 | a | 17 | d | 22 | c |
| 3 | đ | 8  | c- | 13 | đ | 18 | С | 23 | a |
| 4 | С | 9  | a  | 14 | a | 19 | a | 24 | С |
| 5 | d | 10 | d  | 15 | b | 20 | d | 25 | d |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Genesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-629 912.

VAC Coordinator

HoD/AGRI



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



| Name of the Student: J<br>AU Register Number:                         | ayaSoundarya. M<br>811221225014<br>Value Added Course on "Hydroponics"<br>MCO QUESTIONS (25X4 = 100 Marks)        | Year/Sem: II  |
|---|---|---|
| The technique of cultive known as Hydroponics methodologies and is fa | ating plants in a nutrient solution without the . Hydroponics is an alternative to the traditinst replacing them. | ne use of soil is onal cultivation  |
| 1. Which of these is the  | e fibre obtained from the coconut's husk  |   |
| (a) Perlite (b) Vermiculture (c) Coir                                 | Dr. G. Balak  | rishnan, M.E., Ph.D.,<br>Principal<br>College of Engineering<br>Madurai Main Road<br>dam, Trichy-620 012. |
| (d) Rockwoo   | Manikar   |   |
|   | onics that does not require a growing mediu   | m at all is   |
| (a) Aquaculture   |   |   |
| (b) Static solution cultu   | re  |   |
| (A) Medium culture  |   |   |
| (d) Aeroponics  |   |   |
| 3. Plants with larger r<br>hydroponics                                | oots can be cultivated with which of the follo  | owing types of  |
| (a) Ebb and flow system   | m   |   |
| (b) Drip system   |   |   |
| (c) Nutrient Film techn   | nique   |   |
| (d) None of these   | / 1   |   |

4. Hydroponics is a method of cultivation of plants without the use of









| (a) water   |
|---|
| (b) air   |
| (e) soil  |
| (d) sunlight  |
| 5. Which of the following is not true about hydroponics?  |
| (a) Requires high investment  |
| (b) Technical knowledge required  |
| (c) Can be misused to cultivate banned crops  |
| (d) Plants through hydroponics cannot be cultivated everywhere  |
| 6. Salts and water in hydroponic plants are absorbed by   |
| 6. Salts and water in hydroponic plants are absorbed by  (a) Leaves  Dr. C. Balthrichten, M.B., Ph.D.  On Stem  Dr. C. Balthrichten, M.B., Ph.D.  On Stem  On Old   |
| (a) Leaves  (b) Stem  (c) Roots  (d) Roots  (e) Roots  (f) Engineering  Indra Control Main Road  Indra Control Main Road |
| (c) Roots  Indra Garage Main Road  Indra Garage Main Road  Indra Garage Main Road  Indra Garage Main Road  Manikandam, Trichy-620 012  Manikandam, Trichy-620 012   |
| (d) Outer Layer of plants   |
| 7. The scientist who used nutrient culture solution in hydroponic cultures was  |
| (a) Knop  |
| (b) Sachs   |
| (Ø)Wallace  |
| (d) Webster   |
| 8. Deficiency of mineral nutrition does not cause which of these  |
| (a) Chlorosis   |
| b) Etiolation   |
| Necrosis Necrosis   |
|   |





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC

| NAAC Accredited, 2(F) Status Inst   | Gratina of Co.  |
|---|---|
|   |   |
| (d) Shortening internode  |   |
| 9. Roots of a plant in hydroponics are submerged in   | n a solution of dissolved   |
| 9. Roots of a plant in 13   |   |
| (2) fertilizers   |   |
| (b) oxygen  |   |
| (c) mineral salts   |   |
| (d) chemicals   |   |
| 10. Which of these plants may not be suitable for o   | cultivation through hydroponics                                   |
| 10. Which of these plants are   | (P)   |
| (a) Tomatoes  |   |
| (b) Carrot  | Dr. G. Balakrishnan, M.E., Ph.D., Principal                       |
| (e)Cucumber X   | Indra Ganesan Cellege of Engineering IG Valley, Madurai Main Road |
| (d) Strawberries  | Manikandam, Trichy-629 012.                                       |
| 11. Hydroponics is the major topic of which field   | ?   |
| <ul><li>(a). Agriculture.</li><li>(b). Horticulture.</li></ul>  |   |
| (c). Fish farming or fisheries.   |   |
| (d). Dairy farming.   |   |
| 12. Which one is the main field of this topic?  |   |
| <ul><li>(a). Aquaculture.</li><li>(b). Aquaponics.</li><li>(c). Hydrology.</li><li>(d). All of the above.</li></ul> |   |
| 13. Which is an ideal horticultural fruit crop for  | HP?   |
| <ul><li>(a). Strawberry.</li><li>(b). Lemon.</li><li>(c). Sapota.</li><li>(d). Pineapple.</li></ul>                 |   |
| (d). Pineapple.   |   |

14. What is the main advantage of Hydroponics?



# Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012





| (a) Decrease in nutrient use. | utrient use | 1 | in | Decrease | a) Dec | (11) |  |
|-------------------------------|-------------|---|----|----------|--------|------|--|
|-------------------------------|-------------|---|----|----------|--------|------|--|

- (b). Decrease in soil use.
- (c). Decrease in water use.
- (d). All of the above.

# 15. Which of the following books describe this technique?

- (a). History of Agriculture.
- (b). A Natural History.
- (c). Horticulture: A Review.
- (d). None of the above.

### 16. Who wrote Sylva Sylvarum?

- (a). Benjamin Peary Pal.
- (b) George Washing Carver.
- (c). Norman Ernest Borlaug.
- (d). Francis Bacon.

## 17. Who developed soilless culture?

- (a). Julius von Sachs.
- (b). Wilhelm Knop.
- (c). Both a and b.
- (d). Justus von Liebig.

# Dr. G. Balakrishnan, M.E., P. D.,

**Principal** 

Indra Ganesan College of Engineering IG Vailey, Madurai Main Road Manikandam, Trichy-620 012.

### 18. What is the term for the growth of terrestrial plants without soil in mineral nutrient solutions?

- (a). Solution culture.
- (b). Soilless culture.
- (2)! Aquaculture.
- (d). Nutrient culture.

### 19. Who introduced the term hydroponics?

(2)? W. A. Setchell.

- (b). William Frederick Gericke.
- (c). Dennis Robert Hoagland.
- (d). None of the above.

## 20. Who introduced the term water culture?





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- (a). Arnon.
- (b). John Woodward.
- (c). Francis Bacon.
- (d). William Frederick Gericke.
- 21. Who is the writer of Guide to Soilless Gardening?
- (a). William Frederick Gericke.
- (b) Vishwa Gopal Jhingran.
- (c). Dr. B.R. Pillai.
- (d). John Woodward.
- 22. Who is the writer of The Water Culture Method for Growing Plants Without Soil?
- (a). George C. Clerk.
- (b). Arnon.
- (c) Sir Albert Howard.
- (d). Luther Burbank.
- 23. Consider about sub-irrigation.
- (a). Artificial raising of the water table is necessary.
- (b). It is used in commercial greenhouses.
- (c). Water is reusable.
- 24. Why is it necessary to exclude light from the containers?
- (a). To prevent algal growth in the nutrient solution.
- (b). To prevent fungal growth in the nutrient solution.
- (e). Both a and b.
- (d). To prevent drying of the nutrient solution.
- 25. Consider about the Static solution culture:
- (a). Plants are grown in containers of nutrient solution.
- (b). If there is no aeration, then solution level should high.
- (c). If there is no aeration, then solution level should low.
- (A). A float valve automatically regulate the amount of solution.

VAC Coordinate

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-629 812.



(c) Nutrient Film technique

(2) None of these

# Indra Ganesan

#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemiai NAAC Accredited, 2(F) Status Institution by UGC



| Name of the Student:                | SUDHARAKIK                | _                        | Year/Sem: TTT          |
|-------------------------------------|---------------------------|--------------------------|------------------------|
| AU Register Number:                 | 8112210304                | 1                        |                        |
|                                     | Value Added Course or     | n "Hydroponics"          | 491                    |
|                                     | MCQ QUESTIONS (2          | 5X4 = 100 Marks)         | ( 2                    |
| The technique of cultiv             | ating plants in a nutrien | t solution without th    | e use of soil is       |
| * -                                 | . Hydroponics is an alter | rnative to the tradition | onal cultivation       |
| methodologies and is fa             | st replacing them.        |                          |                        |
|                                     | fibre obtained from the   | coconut's husk           | D /                    |
| (a) Perlite                         |                           |                          | and the P              |
| (b) Vermiculture                    |                           | Dr. G. Balaki            | rishnan, M.E., Ph.D.,  |
| (c) Coir                            |                           | Indra Ganesan            | College of Engineering |
| (d) Rockwoo                         |                           | IG Valley, I<br>Manikand | am, Trichy-620 012.    |
| 2. The form of hydropo              | nics that does not requi  | re a growing mediun      | ı at all is            |
| (a) Aquaculture                     |                           |                          |                        |
| (b) Static solution culture         | e -                       |                          |                        |
| (e) Medium culture                  |                           |                          |                        |
| (d) Aeroponics                      |                           |                          |                        |
| 3. Plants with larger rohydroponics | ots can be cultivated wit | h which of the follow    | ing types of           |
| (a) Ebb and flow system             |                           |                          |                        |
| (b) Drip system                     |                           |                          |                        |

4. Hydroponics is a method of cultivation of plants without the use of







| (a) water   |        |
|---|--------|
| (b) air   |        |
| (ø) soil  |        |
| (d) sunlight  |        |
| 5. Which of the following is not true about hydroponics?  |        |
| (a) Requires high investment  |        |
| (b) Technical knowledge required  |        |
| (c) Can be misused to cultivate banned crops  |        |
| (d) Plants through hydroponics cannot be cultivated everywhere                                      |        |
| 6. Salts and water in hydroponic plants are absorbed by    Dr. G. Balakrishnan, M.E., P. Indra Gara | Maria. |
| (a) Leaves IG Valley Made of Engineer   | ring   |
| (b) Stem Manikandam, Trichy-620 012.  |        |
| (c) Roots   |        |
| (d) Outer Layer of plants   |        |
| 7. The scientist who used nutrient culture solution in hydroponic cultures was                      |        |
| (a) Knop  |        |
| (b) Sachs   |        |
| (c) Wallace   |        |
| (d) Webster   |        |
| 8. Deficiency of mineral nutrition does not cause which of these                                    |        |
| (a) Chlorosis   |        |
| (b) Etiolation  |        |
| (A) Necrosis  |        |



# Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012





| (d) | Shortening | internode |
|-----|------------|-----------|
|-----|------------|-----------|

| 9. Roots of a plant in hydroponics are submerged in a solution of dissolved |  |
|---|--|
|---|--|

- (2) fertilizers
- (b) oxygen
- (c) mineral salts
- (d) chemicals
- 10. Which of these plants may not be suitable for cultivation through hydroponics
- (a) Tomatoes
- (b) Carrot
- (c) Cucumber
- (d) Strawberries

Dr. G. Balakrishnan, M.E., Ph.B.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-629 912.

11. Hydroponics is the major topic of which field?

- (a). Agriculture.
- (b). Horticulture.
- (A). Fish farming or fisheries.
- (d). Dairy farming.
- 12. Which one is the main field of this topic?
- (a). Aquaculture.
- (b). Aquaponics.
- (c). Hydrology.
- (d). All of the above.
- 13. Which is an ideal horticultural fruit crop for HP?
- (a). Strawberry.
- (b). Lemon.
- (c). Sapota.
- (d). Pineapple.
- 14. What is the main advantage of Hydroponics?





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemiai
NAAC Accredited, 2(F) Status Institution by UGC

- (a). Decrease in nutrient use.
- (b). Decrease in soil use.
- (c). Decrease in water use.
- (d). All of the above.
- 15. Which of the following books describe this technique?
- (a). History of Agriculture.
- (b). A Natural History.
- (c). Horticulture: A Review.
- (d). None of the above.
- 16. Who wrote Sylva Sylvarum?
- (a). Benjamin Peary Pal.
- (b). George Washing Carver.
- (2)? Norman Ernest Borlaug.
- (d). Francis Bacon.
- 17. Who developed soilless culture?
- (a). Julius von Sachs.
- (b). Wilhelm Knop.
- (c). Both a and b.
- (d) Justus von Liebig.

- Dr. G. Balakrishnan, M.E., Ph.D.,
  Principal
  Indra Ganesan College of Engineering
  IG Valley, Madurai Main Road
  Manikandam, Trichy-620 012.
- 18. What is the term for the growth of terrestrial plants without soil in mineral nutrient solutions?
- (a). Solution culture.
- (b). Soilless culture.
- (e). Aquaculture.
- (d). Nutrient culture.
- 19. Who introduced the term hydroponics?
- (a). W. A. Setchell.
- (b). William Frederick Gericke.
- (c). Dennis Robert Hoagland.
- (d). None of the above.
- 20. Who introduced the term water culture?







- (a). Arnon.
- (b). John Woodward.
- (c). Francis Bacon.
- (2). William Frederick Gericke.

# 21. Who is the writer of Guide to Soilless Gardening?

- (a). William Frederick Gericke.
- (by. Vishwa Gopal Jhingran.
- (c). Dr. B.R. Pillai.
- (d). John Woodward.

# 22. Who is the writer of The Water Culture Method for Growing Plants Without Soil?

- (a). George C. Clerk.
- (b). Arnon.
- (e). Sir Albert Howard.
- (d). Luther Burbank.

Dr. G. Balakrishnan, M.E., Ph.B.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy-620 012.

## 23. Consider about sub-irrigation.

- (a). Artificial raising of the water table is necessary.
- (b). It is used in commercial greenhouses.
- (c). Water is reusable.

# 24. Why is it necessary to exclude light from the containers?

- (a). To prevent algal growth in the nutrient solution.
- (b). To prevent fungal growth in the nutrient solution.
- (e)? Both a and b.
- (d). To prevent drying of the nutrient solution.

# 25. Consider about the Static solution culture:

- (a). Plants are grown in containers of nutrient solution.
- (b). If there is no aeration, then solution level should high.
- (c). If there is no aeration, then solution level should low.
- (d). A float valve automatically regulate the amount of solution.

VAC Coordinator



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



# Department of Computer Science & Engineering

### Academic Year 2022-2023 - Even Semester

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Ruby on Rails"

### MCO QUESTIONS (25X4 = 100 Marks)

- 1. What is gemset?
- a) self-contained bundles of gems. Useful for versioning.
- b) Self-contained packages of Ruby code
- c) Ruby Version Manager. Install and manage multiple versions of Ruby.
- d) rails generate scaffold User name:string email:string
- 2. What is rake?
- a) Self-contained bundles of gems. Useful for versioning.
- b) Bundle exec rake db:migrate. Using bundle exec ensures that the rake version in our Gemfile is used.
- c) rails generate scaffold User name:string email:string
- d) Ruby Version Manager. Install and manage multiple versions of Ruby.
- 3. Rails' application framework is called -----?

a) ActionPack

b) Active Record

c) a web page

d) an object

4. How do you run a migration?

a) Camel Case

b) ruby make

c) an object

d) rake db:migrate

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012.



### EGE OF ENGINE





## **Department of Computer Science & Engineering**

### Academic Year 2022-2023 - Even Semester

- 5. How do you update?
- a) update\_attributes (as in @ad.update attributes(params[: ad]))
- b) Unit, functional, and integration tests
- c) Format (that period is a concatenation period)
- d) It is not associated with a model
- 6. What comes after <% form\_ for ()...?
- a) redirect to " ... "

- b)the request parameters table
- c) <%= f.text field :name %>
- d) do |f| (where "f" can be anything
- 7. What kind of tests are there?
- a) unit, functional, and integration tests
- b) it is not associated with a model

c) id, created at, updated at

d) it runs its validators

- 8. What is "migration"?
- a) It is a format (that period is a concatenation period)
- b) A script that alters the structure of the underlying database
- c) Their names begin with an underscore
- d) The data being presented by the web page
- 9. What steps get you from fild.erb to file.html?
- a) Data from model objects AND the page template
- b).erb -> Embedded Ruby -> ruby code (file.rb-> fild.html
- c) The method within the controller to call
- d) the data being presented by the web page

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 – Even Semester

| 10.  | What is th | ie filter | code tha | t calls | on t | the | "check_ | logged_ | _in'' | method | for |
|------|------------|-----------|----------|---------|------|-----|---------|---------|-------|--------|-----|
| only | the "edit" | " and "   | update"  | method  | ls?  |     |         |         |       |        |     |

- a) the data being presented by the web page
- b) HTTP methods (post, get, put, delete)
- c) data from model objects AND the page template
- d) before filter:check logged in, :only => [:edit, :update]
- 11. Converts database records to objects is called -----
- a) for ad in @ads

- b) integration test
- c) Representational State Transfer
- d) an object-relational mapping library
- 12. What checks if an input is numeric?
- a) integration test

b) a responder object

c) validate

- d) validates numericality of
- 13. How do you express error messages in a form (do |f|)?
- a) ruby make

b) f.error messages

c) for ad in @ads

- d) underscores
- 14. What are the three "magic columns?"
- a) id, created at, updated at
- b)render :partial:id
- c) integration test
- d)rake db:migrate:id:delete
- 15. What tag starts a form?
- a) integration test

- b) <%= f.text\_field :name %>
- c) <% form for() %>
- d) <%= yield %>

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.







IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

## **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 - Even Semester

|                                 |                                       | olo Liveni                | JUINOSCOI   |             |  |  |
|---------------------------------|---------------------------------------|---------------------------|---|-------------|--|--|
| 16. If looping through          | "f" object, how d                     | o you make                | a text field "name"?  |             |  |  |
| a) <%= yield %>                 | b) have the same URL                  |                           |   |             |  |  |
| c) <% form_for() %>             | _for() %> d)<%= f.text_field :name %> |                           |   |             |  |  |
| 17. What does a model           | object do before                      | it saves or u             | ipdates data?   |             |  |  |
| a) underscores                  | b) i                                  | b) it runs its validators |   |             |  |  |
| c) validate                     | d) r                                  | ake db:migra              | te  |             |  |  |
| 18. What does "rake"            | mean?                                 |                           |   |             |  |  |
| a) #{1+1}                       | b) s                                  | ingular                   |   |             |  |  |
| c) ruby make                    | d) f                                  | light_id                  |   |             |  |  |
| 19. What does REST sta          | and for?                              |                           |   |             |  |  |
| a) runs State test              | b) th                                 | he request St             | ate Transfer  |             |  |  |
| c) Representational State       | Transfer d) r                         | uns State Tra             | nsfer   |             |  |  |
| 20. What is the status c        | ode for "success"                     | when throw                | ing a GET?  |             |  |  |
| a) 300                          |                                       | c) 400                    |   |             |  |  |
| 21. Which of the follows        | ing folder contain                    | s compiled a              | ssets and static files  | ?           |  |  |
| a) Temp                         | b) Static                             |                           | d) Bin  |             |  |  |
| 22. In the development eserver? | environment, doe                      | s rails requi             | re you to restart the   |             |  |  |
| a) Yes                          | b) N                                  | 0                         |   |             |  |  |
| 23. Which of the followi        | ng links a control                    | ler action to             | a request?  |             |  |  |
| a) Pipeline                     | b) Route                              |                           | (0.:/   |             |  |  |
| c) Model                        | d) Link                               |                           | Or. G. Balakrishnan, M  | .E., Ph.D., |  |  |
|                                 |                                       |                           | Dr. G. Balaki in Principal Principal Principal Indra Ganesan College of E | ngineering  |  |  |
|                                 |                                       |                           | Indra Ganesan College of E  | 20 012.     |  |  |





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

## **Department of Computer Science & Engineering**

#### Academic Year 2022-2023 - Even Semester

| 24. In Rails applications, migrations are written in |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| a) Ruby  | ) Ruby b) Python   |  |  |  |  |  |  |  |
| c) Perl d) C#  |  |  |  |  |  |  |  |  |
| 25. We can inspect what following command?           | 25. We can inspect what routes are mapped by running which of the following command? |  |  |  |  |  |  |  |
| a) bin/rails routes                                  | b) bin/rails routing mapped  |  |  |  |  |  |  |  |
| c) bin/rails mapped                                  | d) bin/rails route_mapped  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelli & Affiliated to Anna University, Chennal
NAAC Accredited, 2(F) Status Institution by UGC



# Department of Computer Science & Engineering

# Academic Year 2022-2023 - Even Semester

## Value Added Course

Ruby on Rails

#### **ANSWER KEY**

| 1 | Α | 6  | D | 11 | A | 16 | D | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | D | 7  | В | 12 | Α | 17 | A | 22 | A |
| 3 | D | 8  | С | 13 | D | 18 | C | 23 | D |
| 4 | В | 9  | С | 14 | D | 19 | D | 24 | A |
| 5 | D | 10 | В | 15 | À | 20 | D | 25 | A |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



#### COLLEGE OF ENGINEERING





## Department of Computer Science & Engineering

Academic Year 2022-2023 - Even Semester

| Name of the Student : | Cohamed | Tabadh. A | Year/Sem: 1 | /IV |
|-----------------------|---------|-----------|-------------|-----|
|-----------------------|---------|-----------|-------------|-----|

AU Register Number: 811221243025

Value Added Course on "Ruby on Rails"

### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. What is gemset?
- (a) self-contained bundles of gems. Useful for versioning.
  - b) Self-contained packages of Ruby code
  - c) Ruby Version Manager. Install and manage multiple versions of Ruby.
  - d) rails generate scaffold User name:string email:string
  - 2. What is rake?
  - a) Self-contained bundles of gems. Useful for versioning.
- b) Bundle exec rake db:migrate. Using bundle exec ensures that the rake version in our Gemfile is used.
- c) rails generate scaffold User name:string email:string
- Ruby Version Manager. Install and manage multiple versions of Ruby.
- 3. Rails' application framework is called -----?

a) ActionPack

b) Active Record

c) a web page

d)an object

4. How do you run a migration?

a) Camel Case

bi ruby make

c) an object

d) rake db:migrate

Dr., G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelth & Affiliated to Anna University, Chemai NAAC Accredited, 2(F) Status Institution by UGC

## Department of Computer Science & Engineering

### Academic Year 2022-2023 - Even Semester

- 5. How do you update?
- a) update\_attributes (as in @ad.update\_attributes(params[: ad]))
- b) Unit, functional, and integration tests
- c) Format (that period is a concatenation period)
- diff is not associated with a model
  - 6. What comes after <% form for () ... ?

a) redirect\_to " ... "

b)the request parameters table

<%= f.text\_field :name %>

d) do |f| (where "f" can be anything

- 7. What kind of tests are there?
- a) unit, functional, and integration tests
- c) id, created at, updated at
- nt is not associated with a model
  - d) it runs its validators

- 8. What is "migration"?
- a) It is a format (that period is a concatenation period)
- b) A script that alters the structure of the underlying database
- Their names begin with an underscore
  - d) The data being presented by the web page
  - 9. What steps get you from fild.erb to file.html?
  - a) Data from model objects AND the page template
- b).erb -> Embedded Ruby -> ruby code (file.rb-> fild.html

c) The method within the controller to call

d) the data being presented by the web page

Dr. C. D. L.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



### COLLEGE OF ENGINEERING





# Department of Computer Science & Engineering

## Academic Year 2022-2023 - Even Semester

| 10.  | What is the | e filter | code th | at calls | on the | "check | logged | in" | method | for |
|------|-------------|----------|---------|----------|--------|--------|--------|-----|--------|-----|
| only | the "edit"  | and "    | apdate" | method   | s?     | -      |        |     | MOLING | LUL |

- a) the data being presented by the web page
- HTTP methods (post, get, put, delete)
  - c) data from model objects AND the page template
  - d) before\_filter :check\_logged\_in, :only => [:edit, :update]
  - 11. Converts database records to objects is called -----

Tor ad in @ads

- b) integration test
- c) Representational State Transfer
- d) an object-relational mapping library
- 12. What checks if an input is numeric?

a) integration test

b) a responder object

c) validate

- d) validates\_numericality of
- 13. How do you express error messages in a form (do |f|)?
- a) ruby make

b) f.error\_messages

c) for ad in @ads

(d) underscores

- 14. What are the three "magic columns?"
- a) id, created\_at, updated\_at
- b)render:partial:id
- c) integration test
- d) ake db:migrate:id:delete
- 15. What tag starts a form?
- a) integration test

c) <% form\_for() %>

<%= f.text\_field :name %>

d) <%= yield %>

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



# Indra Ganesan COLLEGE OF ENGINEERING



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellii & Affiliated to Anna University, Chemiai NAAC Accredited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

| Aca                          | ademic Year 2022-2023 – Even  | Semester                 |  |  |  |  |  |  |
|------------------------------|---|--------------------------|--|--|--|--|--|--|
| 16. If looping throu         | 16. If looping through "f" object, how do you make a text field "name"? |                          |  |  |  |  |  |  |
| a) <%= yield %>              | b) have the same Ul   | RL                       |  |  |  |  |  |  |
| c) <% form_for() %>          | %= f.text_field :na   | ame %>                   |  |  |  |  |  |  |
| 17. What does a mo           | odel object do before it saves or                                       | updates data?            |  |  |  |  |  |  |
| underscores                  | b) it runs its va   | lidators                 |  |  |  |  |  |  |
| c) validate                  | d) rake db:migr   | ate                      |  |  |  |  |  |  |
| 18. What does "rak           | e" mean?  |                          |  |  |  |  |  |  |
| a) #{1+1}                    | b) singular   |                          |  |  |  |  |  |  |
| ruby make                    | d) flight_id  |                          |  |  |  |  |  |  |
| 19. What does REST           | stand for?  |                          |  |  |  |  |  |  |
| a) runs State test           | b) the request S  | tate Transfer            |  |  |  |  |  |  |
| c) Representational St       | tate Transfer d) runs State Tra   | ansfer                   |  |  |  |  |  |  |
| 20. What is the statu        | s code for "success" when throv   | ving a GET?              |  |  |  |  |  |  |
| a) 300                       | b) 200 400  | d) 150                   |  |  |  |  |  |  |
| 21. Which of the follo       | owing folder contains compiled  | assets and static files? |  |  |  |  |  |  |
| a) Temp                      | Static c) Public  | d) Bin                   |  |  |  |  |  |  |
| 22. In the developme server? | nt environment, does rails requi  | ire you to restart the   |  |  |  |  |  |  |
| a) Yes                       | b) No   |                          |  |  |  |  |  |  |
| 23. Which of the follo       | owing links a controller action to                                      | o a request?             |  |  |  |  |  |  |
| a) Pipeline                  | h) Route  | 10.                      |  |  |  |  |  |  |

c) Model

(Link

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



## COLLEGE OF ENGINEERING





# Department of Computer Science & Engineering

Academic Year 2022-2023 - Even Semester

|   | 24. In Rails applications, migrations are written in |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|
| 2 | Ruby   | b) Python                                      |  |  |  |  |  |  |  |
|   | c) Perl  | d) C#  |  |  |  |  |  |  |  |
|   | 25. We can inspect w following command?              | what routes are mapped by running which of the |  |  |  |  |  |  |  |
|   | a) bin/rails routes                                  | bin/rails routing mapped                       |  |  |  |  |  |  |  |
|   | c) bin/rails mapped                                  | d) bin/rails route_mapped                      |  |  |  |  |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012







## Department of Computer Science & Engineering

Academic Year 2022-2023 - Even Semester

Name of the Student:

d. PHEZBYRDGHNEN

Year/Sem: III /III

AU Register Number: 8112 12 20 104017

Value Added Course on "Ruby on Rails"

MCQ QUESTIONS (25X4 = 100 Marks)

1. What is gemset?

a forf-contained bundles of gems. Useful for versioning.

- b) Self-contained packages of Ruby code
- c) Ruby Version Manager. Install and manage multiple versions of Ruby.
- d) rails generate scaffold User name:string email:string
- 2. What is rake?
- a) Self-contained bundles of gems. Useful for versioning.
- b) Bundle exec rake db:migrate. Using bundle exec ensures that the rake version in our Gemfile is used.
- c) rails generate scaffold User name:string email:string
- dy Ruby Version Manager. Install and manage multiple versions of Ruby.
- 3. Rails' application framework is called -----?

a) ActionPack

b) Active Record

c) a web page

d) an object

4. How do you run a migration?

a) Camel Case

H ruby make

c) an object

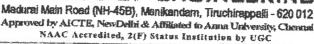
d) rake db:migrate

Dr. G. Balakrishnan, M.E., Ph.D.,

IG Valley, Madurai Main Road Manikandam. Triphy-englang



#### COLLEGE OF ENGINEERING





## Department of Computer Science & Engineering

### Academic Year 2022-2023 - Even Semester

| 10.  | What is the | e filter code th | iat calls on | the "check | logged in" | method | for |
|------|-------------|------------------|--------------|------------|------------|--------|-----|
| only | the "edit"  | and "update"     | methods?     |            | . 00       |        |     |

| a) | the | data | being | presented | by | the | web | page |
|----|-----|------|-------|-----------|----|-----|-----|------|
|----|-----|------|-------|-----------|----|-----|-----|------|

b) HTTP methods (post, get, put, delete)

- c) data from model objects AND the page template
- d) before\_filter :check\_logged\_in, :only => [:edit, :update]

## 11. Converts database records to objects is called -----

a) for ad in @ads

b) integration test

- c) Representational State Transfer
- d) an object-relational mapping library

### 12. What checks if an input is numeric?

a) integration test

by a responder object

c) validate

d) validates\_numericality of

## 13. How do you express error messages in a form (do |f|)?

a) ruby make

b) f.error\_messages

c) for ad in @ads

d) underscores

### 14. What are the three "magic columns?"

a) id, created\_at, updated\_at

b)render :partial:id

c) integration test

A)rake db:migrate:id:delete

### 15. What tag starts a form?

a) integration test

b) <%= f.text\_field :name %>

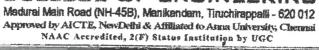
c) <% form\_for() %>

d) <%= yield %>

(D:

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.







# Department of Computer Science & Engineering

### Academic Year 2022-2023 - Even Semester

| 24. In Rails application                 | ons, migrations are writ | ten in                 |
|--|--------------------------|------------------------|
| a) Ruby                                  | b) Python                | )                      |
| c) Perl                                  | d) C#                    |                        |
| 25. We can inspect wh following command? | at routes are mapped by  | y running which of the |
| a) bin/rails routes                      | b) bin/rails routing ma  | pped                   |
| c) bin/rails mapped                      | d) bin/rails route_map   | ped                    |
|  |                          |                        |

0

Principal
Indra Ganesan College of Former
IG Valley, Madurated Manikandaro



Medural Main Road (NH-45B), Manikandam, Tiruchirappall - 620 012 Approved by AICTE, NewDeltil & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student:

Year/Sem:

**AU Register Number:** 

Dr. G. Balakrishnan, M.E., Ph.D.,

ngineering Road 0 012.

|             | Value Added Course Principal   |     |  |  |  |  |  |  |  |  |  |
|-------------|--|-----|--|--|--|--|--|--|--|--|--|
|             | Indra Ganesan College of "Electrical safety & maintenance" IG Valley, Madurai M.                       | ain |  |  |  |  |  |  |  |  |  |
|             | Manikandam, Trichy- MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)  | 620 |  |  |  |  |  |  |  |  |  |
| L.          | . Which of these can be used as insulating live-line tools for electrical protection?                  |     |  |  |  |  |  |  |  |  |  |
|             | (A) Shotgun sticks (B) Switch sticks (C) Hot sticks  |     |  |  |  |  |  |  |  |  |  |
|             | (D) None of the above (E) a, b, and c  |     |  |  |  |  |  |  |  |  |  |
| 2.          | A Safety Electrical One Line Diagram should be used to all sources o electrical energy.                | f   |  |  |  |  |  |  |  |  |  |
|             | (A) Identify (B) Castigate (C) Evaluate (D) Modify   |     |  |  |  |  |  |  |  |  |  |
| 3.          | The minimum allowable workspace around electrical equipment is inches deep.                            |     |  |  |  |  |  |  |  |  |  |
|             | A) 36 B) 48 C) 24 D) 30  |     |  |  |  |  |  |  |  |  |  |
| <b>\$</b> . | OSHA requires the testing of a voltmeter after a voltage test on voltage above                         |     |  |  |  |  |  |  |  |  |  |
|             | A) 120v B) 208v C) 277v D) 600v  |     |  |  |  |  |  |  |  |  |  |
| 5.          | One of the three generally recognized hazards of electrical work is                                    |     |  |  |  |  |  |  |  |  |  |
|             | A) Arc Flash B) Cuts C) Falls D) Concussion  |     |  |  |  |  |  |  |  |  |  |
| 6.          | Gloves used for electrical protection must be electrically tested every month.                         |     |  |  |  |  |  |  |  |  |  |
|             | A) 3 months B) 6 months C) 12 months D) Never  |     |  |  |  |  |  |  |  |  |  |
| 7.          | Which of these risks is associated with electricity?   |     |  |  |  |  |  |  |  |  |  |
|             | A) Shock B) Fire C) Explosion D) All of the above  |     |  |  |  |  |  |  |  |  |  |
| 8.          | What's the first thing you should do if a co-worker is being electrocuted?                             |     |  |  |  |  |  |  |  |  |  |
|             | A) Pull them free of the power source.  C) Call 911  B) Turn off the power source.  D) Alert a foreman |     |  |  |  |  |  |  |  |  |  |





Madurei Main Road (NH-45B), Manikandem, Tiruchireppelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Cherusal NAAC Accredited, 2(F) States Institution by UGC



| 9.  | GFCI stands for ground fault circuit interrupter. |   |                                      |  |         | Dr. G. Balakrishnan, M.E., Ph.D      |  |  |  |  |
|-----|---|---|--------------------------------------|--|---------|--------------------------------------|--|--|--|--|
|     | A) True.  | B) False.   |                                      |  |         | Principal                            |  |  |  |  |
|     | ŕ   | ,   |                                      |  |         | Indra Ganesan College of Engineering |  |  |  |  |
| 10  | 0. If you're wo                                   | rking in a damp space,                            | what do                              | you need to d  | lo?     | IG Valley, Madurai Main Road         |  |  |  |  |
|     | A) Mop First                                      | B) Elevate th                                     | e electrica                          | al outlets and v   | wiring  | Manikandam, Trichy-620 012.          |  |  |  |  |
|     |   | use ground fault circuit                          |                                      |  | _       | eaters to dry areas.                 |  |  |  |  |
|     |   |   |                                      |  |         |                                      |  |  |  |  |
| 11  | l. If you're ser                                  | vicing an appliance, wh                           | at's the f                           | irst thing you   | i need  | to do?                               |  |  |  |  |
|     |   |   |                                      |  |         |                                      |  |  |  |  |
|     | · · · · · · · · · · · · · · · · · · ·             | e battery or motor.<br>e power lines leading into | ~ 24                                 | B) Test to ensure it's de-powered. it. D) Remove any batteries |         |                                      |  |  |  |  |
|     | C) hispect the                                    | atteries  |                                      |  |         |                                      |  |  |  |  |
| 12  |   | ame of the practice tha                           |                                      |  | vn an   | electrical device and                |  |  |  |  |
|     | labeling it so                                    | others know who locke                             | ed it and v                          | why?   |         |                                      |  |  |  |  |
|     | A) Lockout/T                                      | agout B) Lo                                       | ock and La                           | abel   |         |                                      |  |  |  |  |
|     | C) Go and Sho                                     | -   | top/Gap                              |  |         |                                      |  |  |  |  |
|     |   |   |                                      |  |         |                                      |  |  |  |  |
| 13  | . Ladders can<br>electrician's l                  | be made from a variety                            | of mater                             | rials, but wha   | t mat   | erial is best for an                 |  |  |  |  |
|     | Cicci ician s i                                   | auuci :   |                                      |  |         |                                      |  |  |  |  |
|     | A) Fiberglass                                     | B) Wood C) Al                                     | uminium                              | D) A   | ll of t | he above                             |  |  |  |  |
|     |   |   |                                      | •  |         |                                      |  |  |  |  |
| 14. | . Which one of                                    | these would require th                            | at a devi                            | ce is replaced   | or re   | paired?                              |  |  |  |  |
|     | A) Frayed win                                     | e B) Cracked i                                    | nsulation                            | C) Broken  | plug    | D) All of the above                  |  |  |  |  |
|     |   | •   |                                      | r  |         |                                      |  |  |  |  |
| 15. | Gloves should                                     | be made of what two                               | materials                            | when dealing   | g with  | electricity?                         |  |  |  |  |
|     | A) Cotton an                                      | d nolymers  | R) Leat                              | her and rubber   | r       |                                      |  |  |  |  |
|     | C) Cotton and                                     |   |                                      | her and cotton   |         |                                      |  |  |  |  |
|     |   |   | ,                                    |  |         |                                      |  |  |  |  |
| 16. | How is IPE di                                     | fferent from PPE?                                 |                                      |  |         |                                      |  |  |  |  |
|     | A) It's for high                                  | er voltage equipment.                             |                                      | B) It covers ex  | xnose   | d live parts, not workers.           |  |  |  |  |
|     | , _   | weather work only.                                | D) it's for industrial electrical wo |  |         | •                                    |  |  |  |  |
|     |   |   |                                      | ·  |         |                                      |  |  |  |  |
| 17. | What should y                                     | you assume about every                            | electrica e                          | il device when   | a you   | first start work?                    |  |  |  |  |
|     | A) It's live.                                     | B) Its malfunctioning.                            | C) It                                | has a short.   | D):     | it's wired incorrectly               |  |  |  |  |
|     |   | my man management was well as the                 | 0,11                                 |  | الرمد   | ne w transportations                 |  |  |  |  |
| 18. | Why is it a goo                                   | od idea to only work wi                           | th one ha                            | nd whenever  | possi   | ble?                                 |  |  |  |  |
|     | A) Allowe for                                     | greater accuracy                                  | R) Facia                             | r to work in co  | anfina  | ห์ เทอกละ                            |  |  |  |  |
|     | C) Reduces sho                                    |   | D) it's n                            | u spaves   |         |                                      |  |  |  |  |



#### COLLEGE OF ENGINEERING





| 1   | 9. What do you need  | to do with a cap                | acitor bel  | ore wo | rking near one | ?          |  |  |  |
|---|--|---------------------------------|---|--------|----------------|------------|--|--|--|
|   | A) Remove it. B) (   | Ground it.                      | C) Ins  | D) I   | ) Drain it.    |            |  |  |  |
| 20. Do you know the minimum amount of clear working space needed in front of an electrical panel? |  |                                 |   |        |                |            |  |  |  |
|   | A) 30 inches B) 3  | 6 inches C) 4                   | 0 inches  | D) 48  | inches         |            |  |  |  |
| 21. There are three shock approach boundaries; do you know what they are?                         |  |                                 |   |        |                |            |  |  |  |
|   | A) 1st, 2nd, and 3 <sup>rd</sup><br>C) Green, Yellow an  | d Red.                          | <ul><li>B) Main. Secondary, Tertiary.</li><li>D) Limited, Restricted and Prohibited</li></ul> |        |                |            |  |  |  |
| 22  | 22. What's the point of grounding?   |                                 |   |        |                |            |  |  |  |
|   | <ul> <li>A) To provide an alternate path for electricity to get to the ground.</li> <li>B) To close a circuit</li> <li>C) To break a circuit</li> <li>D) To lower the voltage</li> </ul> |                                 |   |        |                |            |  |  |  |
| 23. Can you name the correct classification of an electrical fire?                                |  |                                 |   |        |                |            |  |  |  |
|   | A) Class E   | B) Class C                      | C) Clas   | s K    | D) Class A     |            |  |  |  |
| 24.   | 24. What shouldn't be stored near electrical panels?   |                                 |   |        |                |            |  |  |  |
|   | A) Wood B) Co  | ombustible liquid               | s   | C) PV( | C pipe         | D) Magnets |  |  |  |
| 25.   | 25. Which of these would likely be a lethal current?   |                                 |   |        |                |            |  |  |  |
|   | A) 40 milliamperes<br>C) 600 milliamperes  | B) 175 millian<br>D) 10,000 mil |   |        |                |            |  |  |  |
|   |  |                                 |   |        |                |            |  |  |  |

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandern, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



#### Value Added Course

### "Electrical safety & maintenance"

#### ANSWER KEY

| 1 | E | 6  | В | 11 | В | 16 | В | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | A | 7  | D | 12 | A | 17 | Α | 22 | A |
| 3 | D | 8  | В | 13 | A | 18 | С | 23 | A |
| 4 | D | 9  | A | 14 | D | 19 | D | 24 | В |
| 5 | A | 10 | С | 15 | В | 20 | Α | 25 | D |

ur. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



A) Shock

C) Call 911

B) Fire

A) Pull them free of the power source.

Madural Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelin & Affiliated to Arma University, Cheunsi NAAC Accredited, 2(F) Status Institution by UGC



IG Valley, Madurai Main Road

Name of the Student: Copomalagu Year/Sem: W/VIII AU Register Number: 811219105005 Value Added Course "Electrical safety & maintenance" MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks) 1. Which of these can be used as insulating live-line tools for electrical protection? (B) Switch sticks (C) Hot sticks (A) Shotgun sticks (D) None of the above (13), b, and c 2. A Safety Electrical One Line Diagram should be used to all sources of electrical energy. (B) Castigate (C) Evaluate AT dentify (D) Modify 3. The minimum allowable workspace around electrical equipment is \_\_\_\_\_\_inches deep. A) 36 B) 48 ( ) 30 4. OSHA requires the testing of a voltmeter after a voltage test on voltage above C) 277v (D) 600v B) 208v A) 120v 5. One of the three generally recognized hazards of electrical work is C) Falls A) Arc Flash B) Cuts D) Concussion 6. Gloves used for electrical protection must be electrically tested every A) 3 months (B) months C) 12 months D) Never Dr. G. Balakrishnan, M.E., Ph.D., 7. Which of these risks is associated with electricity? **Principal** Indra Ganesan College of Engineering C) Explosion (D) Il of the above

8. What's the first thing you should do if a co-worker is being electrocuted?

Manikandam, Trichy-620 012.

By Jurn off the power source.

Alert a foreman







| 9.  | 9. GFCI stands for ground fault circuit intern   | upter.  |     |
|-----|--|---|-----|
| (   | A) True. B) False.   | Br. G. Balakrishnan, M.E., Ph.  | D., |
| 10. | 10. If you're working in a damp space, what do   | you need to do?  Indra Ganesan College of Engineeri                                 | ng  |
|     | A) Mop First.  B) Elevate the electric control in the control of t | cal outlets and wiring.  IG Valley, Madurai Main Road                               |     |
| 11. | 11. If you're servicing an appliance, what's the   | first thing you need to do?   |     |
|     | A) Expose the battery or motor. C) Inspect the power lines leading into it.  | B) Test to ensure it's de-powered. D) Remove any batteries                          |     |
| 12. | 12. What is the name of the practice that invol-<br>labeling it so others know who locked it an  |   |     |
|     | A) Lockout/Tagout C) Go and Show B) Lock and D) Stop/Gap   |   |     |
| 13. | 13. Ladders can be made from a variety of matelectrician's ladder?   | erials, but what material is best for an  |     |
|     | A) Fiberglass (B) Vood C) Aluminiu   |   |     |
| 14. | 14. Which one of these would require that a de   | vice is replaced or repaired?   |     |
|     | A) Frayed wire B) Cracked insulation   | on C) Broken plug D) All of the above   |     |
| 15. | 15. Gloves should be made of what two materia  | ls when dealing with electricity?   |     |
|     |  | ather and rubber eather and cotton  |     |
| 16. | 16. How is IPE different from PPE?   |   |     |
|     | A) It's for higher voltage equipment. C) it's for wet weather work only  | But covers exposed live parts, not workers. D) it's for industrial electrical work. |     |
| 17. | 17. What should you assume about every electr  | ical device when you first start work?  |     |
| Æ   | A) t's live. B) Its malfunctioning. C  | ) It has a short. D) it's wired incorrectly.  |     |
| 18. | 18. Why is it a good idea to only work with one  | hand whenever possible?   |     |
| (   |  | sier to work in confined spaces s not a good idea.                                  |     |



### COLLEGE OF ENGINEERING





| 19. What do you need to do with a capacitor before working near one?  |   |  |   |   |  |  |  |  |  |
|---|---|--|---|---|--|--|--|--|--|
| A) Remove it.   | B) Ground it.   | C) I   | nspect it.  |   | Prain it.  |  |  |  |  |
| 20. Do you know the minimum amount of clear working space needed in front of an electrical panel?                     |   |  |   |   |  |  |  |  |  |
| A) 0 inches   | B) 36 inches  | C) 40 inches   | D) 48   | 8 inches  |  |  |  |  |  |
| 21. There are three shock approach boundaries; do you know what they are?   |   |  |   |   |  |  |  |  |  |
|   |   | The same of the sa |   | * '   | r  |  |  |  |  |
| What's the poi  | nt of grounding   | ?  |   |   |  |  |  |  |  |
| A) To provide an alternate path for electricity to get to the ground.  B) To close a circuit  D) To lower the voltage |   |  |   |   |  |  |  |  |  |
| Can you name  | the correct clas  | sification of a  | n electri   | ical fire?  |  |  |  |  |  |
| \) lass E   | B) Clas   | s C C) CI  | ass K   | D) Class A  |  |  |  |  |  |
| What shouldn't  | t be stored near  | electrical pa  | nels?   |   |  |  |  |  |  |
| A) Wood (   | Boombustible  | liquids  | C) PV   | C pipe  | D) Magnets   |  |  |  |  |
| Which of these  | would likely be   | a lethal curr  | ent?  |   |  |  |  |  |  |
|   |   |  | es  |   |  |  |  |  |  |
|   | A) Remove it.  Do you know to electrical pane.  A) 10 inches  There are three  A) 1st. 2nd. and C) Green, Yello  What's the point  A) 10 provide a B) 10 close a circle. To break a circle. To break a circle. To break a circle. What shouldn't A) Wood  Which of these  A) 40 milliampe | A) Remove it. B) Ground it.  Do you know the minimum at electrical panel?  A) 10 inches B) 36 inches  There are three shock approata  A) 1st. 2nd. and 3rd  C) Green, Yellow and Red.  What's the point of grounding  A) 1's provide an alternate path  B) 10 close a circuit  Can you name the correct class  What shouldn't be stored near  A) Wood B) combustible  Which of these would likely be  A) 40 milliamperes B) 175 re   | A) Remove it. B) Ground it. C) In  Do you know the minimum amount of clear electrical panel?  A) 10 inches B) 36 inches C) 40 inches  There are three shock approach boundaries  A) 1st. 2nd. and 3rd C) Green, Yellow and Red.  What's the point of grounding?  A) 1's provide an alternate path for electricity B) 10 close a circuit C) To break a circuit D) To lower to  Can you name the correct classification of a  A) 1'lass E B) Class C C) Cl  What shouldn't be stored near electrical panel  A) Wood B) Combustible liquids  Which of these would likely be a lethal curred  A) 40 milliamperes  B) 175 milliamperes | A) Remove it. B) Ground it. C) Inspect it.  Do you know the minimum amount of clear working electrical panel?  A) 10 inches B) 36 inches C) 40 inches D) 40.  There are three shock approach boundaries; do you had a letter and Red.  B) Main, Sec C) Green, Yellow and Red.  What's the point of grounding?  A) 10 provide an alternate path for electricity to get to B) 10 close a circuit D) To lower the voltage and the correct classification of an electrical panels?  Can you name the correct classification of an electrical panels?  A) Wood B) Combustible liquids C) PV Which of these would likely be a lethal current?  A) 40 milliamperes B) 175 milliamperes | A) Remove it. B) Ground it. C) Inspect it.  Do you know the minimum amount of clear working space neede electrical panel?  A) 10 inches B) 36 inches C) 40 inches D) 48 inches  There are three shock approach boundaries; do you know what to the space and and a secondary, Tertian C) Green, Yellow and Red.  B) Main, Secondary, Tertian C) Green, Yellow and Red.  What's the point of grounding?  A) To provide an alternate path for electricity to get to the ground.  B) To close a circuit  D) To lower the voltage  Can you name the correct classification of an electrical fire?  A) Class C  C) Class K  What shouldn't be stored near electrical panels?  A) Wood  B) Tombustible liquids  C) PVC pipe  Which of these would likely be a lethal current?  A) 40 milliamperes  B) 175 milliamperes |  |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Approved by AICTE, New Defin & Affiliated to Anna University, Chemist
NAAC Accredited, 2(F) Status Institution by UGC



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

Name of the Student: S. SANGILI

Year/Sem: // [V

AU Register Number:

811221105027

## Value Added Course

"Electrical safety & maintenance"

| MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks) |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|
| 1.  | Which of these can be used as insulating live-line tools for electrical protection?                  |  |  |  |  |  |  |  |  |
|   | (A) Shotgun sticks (B) Switch sticks (C) Hot sticks  |  |  |  |  |  |  |  |  |
|   | (D) None of the above (E) a, b, and c  |  |  |  |  |  |  |  |  |
| 2.  | A Safety Electrical One Line Diagram should be used to all sources of electrical energy.             |  |  |  |  |  |  |  |  |
|   | (B) Castigate (C) Evaluate (D) Modify  |  |  |  |  |  |  |  |  |
| 3.  | The minimum allowable workspace around electrical equipment is inches deep.                          |  |  |  |  |  |  |  |  |
|   | A) 36 B) 48 C) 24 <b>D</b> 30  |  |  |  |  |  |  |  |  |
| 4.  | OSHA requires the testing of a voltmeter after a voltage test on voltage above                       |  |  |  |  |  |  |  |  |
|   | A) 120v B) 208v D) 600v  |  |  |  |  |  |  |  |  |
| 5.  | One of the three generally recognized hazards of electrical work is                                  |  |  |  |  |  |  |  |  |
|   | Arc Flash B) Cuts C) Falls D) Concussion   |  |  |  |  |  |  |  |  |
| 6.  | Gloves used for electrical protection must be electrically tested every month.                       |  |  |  |  |  |  |  |  |
|   | A) 3 months B) 6 months C) 12 months D) Never  |  |  |  |  |  |  |  |  |
| 7.  | Which of these risks is associated with electricity?   |  |  |  |  |  |  |  |  |
|   | A) Shock B) Fire C) Explosion D All of the above   |  |  |  |  |  |  |  |  |
| 8.  | What's the first thing you should do if a co-worker is being electrocuted?                           |  |  |  |  |  |  |  |  |
|   | A) Pull them free of the power source. C) Call 911  B) Turn off the power source. D) Alert a foreman |  |  |  |  |  |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# COLLEGE OF ENGINEERING



Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDellii & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) States Institution by UGC

9. GFCI stands for ground fault circuit interrupter.

| (A) True. B) False.   |  | Dr. G. Balakrishnan, M.E., Ph.D.,                          |
|---|--|--|
| 10. If you're working in a damp space   | ce, what do you need to do?  | Indra Ganesan College of Engineering                       |
| A) Mop First. B) Elevate (C) Install and use ground fault circu   | the electrical outlets and wiring ait interrupter. D) Use he                         | INT VAIDAV MACALINE: LA                                    |
| 11. If you're servicing an appliance, v   | what's the first thing you need  | to do?   |
| <ul><li>A) Expose the battery or motor.</li><li>C) Inspect the power lines leading in</li></ul>                     | (B) Test to ensure into it. D) Remove any ba   |  |
| 12. What is the name of the practice t labeling it so others know who lock  | hat involves locking down an ked it and why?   | electrical device and                                      |
|   | Lock and Label<br>Stop/Gap   |  |
| 13. Ladders can be made from a varie electrician's ladder?  | ety of materials, but what mate  | erial is best for an                                       |
| Fiberglass B) Wood (C)  | Aluminium D) All of the  | he above   |
| 14. Which one of these would require  | that a device is replaced or re  | paired?  |
| A) Frayed wire B) Cracked   | l insulation C) Broken plug  | (D) All of the above                                       |
| 15. Gloves should be made of what two   | materials when dealing with  | electricity?   |
| <ul><li>A) Cotton and polymers</li><li>C) Cotton and rubber</li></ul>   | B Leather and rubber D) Leather and cotton   |  |
| 16 Harris IDE diec ppro   |  |  |
| 16. How is IPE different from PPE?  |  |  |
| A) It's for higher voltage equipment. C) it's for wet weather work only.  | (B) It covers exposed<br>D) it's for industrial                                      | l live parts, not workers.<br>electrical work.             |
| A) It's for higher voltage equipment.   | D) it's for industrial   | electrical work.   |
| A) It's for higher voltage equipment. C) it's for wet weather work only.  | D) it's for industrial  ry electrical device when you i                              | electrical work.   |
| A) It's for higher voltage equipment.     C) it's for wet weather work only.  17. What should you assume about ever | D) it's for industrial  ry electrical device when you it  c. C) It has a short. D) i | electrical work.  first start work?  t's wired incorrectly |



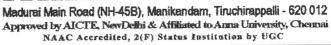




| 1   | 19. What do you need to do with a capacitor before working near one?  |                        |                  |             |            |  |  |  |  |  |
|-----|---|------------------------|------------------|-------------|------------|--|--|--|--|--|
|     | A) Remove it.   | B) Ground it.          | C) Inspect i     | t. <b>①</b> | Drain it.  |  |  |  |  |  |
| 2   | 20. Do you know the minimum amount of clear working space needed in front of an electrical panel?   |                        |                  |             |            |  |  |  |  |  |
|     | (A) 30 inches   | B) 36 inches C) 4      | 0 inches D)      | 8 inches    |            |  |  |  |  |  |
| 21  | 21. There are three shock approach boundaries; do you know what they are?   |                        |                  |             |            |  |  |  |  |  |
|     | A) 1st, 2nd, and 3 <sup>rd</sup> B) Main, Secondary, Tertiary. C) Green, Yellow and Red. D) Limited, Restricted and Prohibited            |                        |                  |             |            |  |  |  |  |  |
| 22  | 22. What's the point of grounding?  |                        |                  |             |            |  |  |  |  |  |
|     | To provide an alternate path for electricity to get to the ground.  B) To close a circuit  C) To break a circuit  D) To lower the voltage |                        |                  |             |            |  |  |  |  |  |
| 23  | . Can you name  | the correct classifica | tion of an elect | rical fire? |            |  |  |  |  |  |
|     | Class E   | B) Class C             | C) Class K       | D) Class A  |            |  |  |  |  |  |
| 24. | What shouldn't  | t be stored near elect | rical panels?    |             |            |  |  |  |  |  |
|     | A) Wood   | D Combustible liquid   | ds C) P          | /C pipe     | D) Magnets |  |  |  |  |  |
| 25. | Which of these  | would likely be a leti | hal current?     |             |            |  |  |  |  |  |
|     | A) 40 milliampe<br>C) 600 milliampe   |                        |                  |             |            |  |  |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.







Name of the Student: Naveen . R

Year/Sem: III/VI

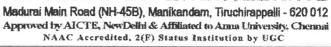
AU Register Number: 8/122-0105024



## Value Added Course

|    |                                       | "Electric        | eal safety &    | . mainte                | enance"                       |   |
|----|---------------------------------------|------------------|-----------------|-------------------------|-------------------------------|---|
|    | <u>M</u> I                            | JLTIPLE CH       | OICE QUEST      | TIONS (2:               | 5X1 = 25 M                    | arks)   |
| 1. | Which of thes protection?             | se can be us     | ed as insulat   | ting live               | -line tools                   | for electrical Dr. G. Balakrishnan, M.E., Ph.D  |
|    | (A) Shotgun stick                     | ks (B) Sw        | itch sticks     | (C) Ho                  | t sticks                      | Principal   |
|    | (D) None of the a                     | ~                |                 |                         |                               | Indra Ganesan College of Engineering<br>IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| 2. | A Safety Electri<br>electrical energy |                  | Diagram shou    | ld be use               | d to                          | all sources of  |
| _  | (A) dentify (                         | (B) Castigate    | (C) Evaluate    | (D) Mo                  | odify                         |   |
| 3. | The minimum a deep.                   | llowable work    | cspace around   | electrica               | l equipmen                    | t is inches   |
|    | A) 36 B) 48 (                         | C) 24 (D) 30     |                 |                         |                               |   |
| 4. | OSHA requires                         | the testing of   | a voltmeter a   | fter a vol              | tage test on                  | voltage above   |
|    | A) 120v I                             | B) 208v          | C) 277v         | D)600                   | V                             |   |
| 5. | One of the three                      | generally rec    | ognized hazar   | ds of elec              | trical work                   | is  |
|    | A) Arc Flash                          | B) Cut           | s C) Fa         | ılls                    | D) Concus                     | sion  |
| 6. | Gloves used for                       | electrical pro   | tection must b  | e el <del>e</del> ctric | ally tested e                 | every month.  |
|    | A) 3 months                           | B) 6 months      | C) 12 months    | D) Nev                  | er er                         |   |
| 7. | Which of these 1                      | risks is associa | ited with elect | ricity?                 |                               |   |
|    | A) Shock                              | B) Fire          | C) Explosion    | DIAII                   | of the above                  | :   |
| 8. | What's the first                      | t thing you sh   | ould do if a co | -worker i               | s being elec                  | trocuted?   |
|    | A) Pull them free<br>C) Call 911      | e of the power   | source.         |                         | n off the pov<br>rt a foreman |   |





9. GFCI stands for ground fault circuit interrupter.



|     | Of et stands for ground must enter   | i micri upici.   | Dr. G. Balakrishnan, M.E., Ph.D.,                                 |
|-----|--|--|---|
|     | A) True. alse.   | •  | Principal   |
| 10  | If you're working in a damp space,   | what do you need to do?  | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |
| 10. | if you it working in a damp space,   | what do you need to do:  | Manikandam, Trichy-620 012.                                       |
| (   | A) Mop First. B) Elevate the C) Install and use ground fault circuit is                  | e electrical outlets and wiri<br>interrupter. D) Use   | _   |
| 11. | If you're servicing an appliance, who  | at's the first thing you ne  | ed to do?   |
|     | A) Expose the battery or motor. C) Inspect the power lines leading into                  |  | re it's de-powered.<br>batteries                                  |
| 12. | What is the name of the practice tha labeling it so others know who locked               |  | n electrical device and   |
| ı   | A) Lockout/Tagout B) Lo  | ck and Label   |   |
| 2   |  | op/Gap   |   |
| 13. | Ladders can be made from a variety electrician's ladder?  A) Fiberglass (B) Wood (C) Alu |  |   |
|     | A) Floeiglass (b) wood (c) Alt   | milinum D) An o  | f the above   |
| 14. | Which one of these would require the   | at a device is replaced or   | repaired?   |
|     | A) Frayed wire B) Cracked in   | nsulation C) Broken plu  | g D) All of the above   |
| 15. | Gloves should be made of what two n  | materials when dealing w   | ith electricity?  |
|     | A) Cotton and polymers C) Cotton and rubber  | B) Leather and rubber D) Leather and cotton  |   |
| 16. | How is IPE different from PPE?   |  |   |
|     | A) It's for higher voltage equipment.  S for wet weather work only.                      | The state of the s | osed live parts, not workers. rial electrical work.               |
| 17. | What should you assume about every   | electrical device when ye  | ou first start work?  |
| h   | A) It's live. B) Its malfunctioning.   | C) It has a short.   | D) it's wired incorrectly.  |
| 18. | Why is it a good idea to only work wi  | th one hand whenever po  | ssible?   |
| 1   | A) Allows for greater accuracy  (2) Reduces shock risk                                   | B) Easier to work in conf<br>D) it's not a good idea.  | ined spaces   |



### COLLEGE OF ENGINEERING





| 19. What do you need to do with a capacitor before working near one?   |                           |                  |                 |                  |  |  |  |  |
|--|---------------------------|------------------|-----------------|------------------|--|--|--|--|
| A) Remove it.  | B) Ground it.             | C) Inspect it    |                 | Srain it.        |  |  |  |  |
| 20. Do you know electrical pane  | the minimum amount<br>el? | of clear worki   | ng space needed | l in front of an |  |  |  |  |
| (A)30 inches   | B) 36 inches C) 40        | inches D) 4      | 8 inches        |                  |  |  |  |  |
| 21. There are three shock approach boundaries; do you know what they are?  |                           |                  |                 |                  |  |  |  |  |
| A) 1st, 2nd, and 3 <sup>rd</sup> B) Muin, Secondary, Tertiary. C) Green, Yellow and Red. B) Muin, Secondary, Tertiary. imited, Restricted and Prohibited |                           |                  |                 |                  |  |  |  |  |
| 22. What's the poi   | nt of grounding?          |                  |                 |                  |  |  |  |  |
| A) To provide an alternate path for electricity to get to the ground.  o close a circuit  D) To lower the voltage  |                           |                  |                 |                  |  |  |  |  |
| 23. Can you name   | the correct classificati  | on of an electri | cal fire?       |                  |  |  |  |  |
| (A) Class E  | B) Class C                | C) Class K       | D) Class A      |                  |  |  |  |  |
| 24. What shouldn't   | t be stored near electri  | cal panels?      |                 |                  |  |  |  |  |
| A) Wood  | B)Combustible liquids     | C) PV            | C pipe          | D) Magnets       |  |  |  |  |
| 25. Which of these would likely be a lethal current?   |                           |                  |                 |                  |  |  |  |  |
| A) 40 milliampe<br>C) 600 milliampe  |                           |                  |                 |                  |  |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) States Institution by UGC



Name of the Student:

Year/Sem:

AU Register Number:

stepindex fibers but have core diameters \_\_

## Value Added Course

## "FIBER OPTIC SYSTEM DESIGN & SIMULATION" MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

| 1. Multimode step index fiber has  a) Large core diameter & large numerical aperture  b) Large core diameter and small numerical aperture  c) Small core diameter and large numerical aperture  d) Small core diameter & small numerical aperture  2. A typically structured glass multimode step index fiber shows as verifications. | Dr. G. Balakrishnan, M.E., Ph. D. Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road  Manikandam Trichy-620 012.  |
|---|--|
| orantenuation in range of   | ariationanikanuani, meny dan dan   |
| a) 1.2 to 90 dB km <sup>-1</sup> at wavelength 0.69 $\mu$ m   |  |
| b) 3.2 to 30 dB km <sup>-1</sup> at wavelength 0.59μm   |  |
| c) 2.6 to 50 dB km <sup>-1</sup> at wavelength 0.85µm   |  |
| d) 1.6 to 60 dB km <sup>-1</sup> at wavelength 0.90μm   |  |
| <ul> <li>3. Multimode step index fiber has a large core diameter of range is</li> <li>a) 100 to 300 μm</li> <li>b) 100 to 300 nm</li> <li>c) 200 to 500 μm</li> <li>d) 200 to 500 nm</li> </ul>   | **************************************   |
| 4. Multimode step index fibers have a bandwidth of a) 2 to 30 MHz km b) 6 to 50 MHz km c) 10 to 40 MHz km d) 8 to 40 MHz km   |  |
| <ul><li>5. Multimode graded index fibers are manufactured from materials with</li><li>a) Lower purity</li><li>b) Higher purity than multimode step index fibers.</li><li>c) No impurity</li><li>d) Impurity as same as multimode step index fibers.</li></ul>   | 1  |
| <ul><li>6. The performance characteristics of multimode graded index fibers are</li><li>a) Better than multimode step index fibers</li><li>b) Same as multimode step index fibers</li></ul>   | The state of the s |
| c) Lesser than multimode step index fibers<br>d) Negligible   |  |
| 7. Multimode graded index fibers have overall buffer jackets same as mu   | ıltimode   |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Atms University, Chemai NAAC Accredited, 2(F) Status Institution by UGC



- a) Larger than multimode step index fibers
- b) Smaller than multimode step index fibers
- c) Same as that of multimode step index fibers

| d) Smaller than single mode step index fibers   |  |
|---|--|
| <ul> <li>8. Multimode graded index fibers with wavelength of 0.85μm ha</li> <li>0.29 have core/cladding diameter of</li></ul>               | ve numerical aperture of<br>a) 62.5 µm/125 µm  |
| <ul><li>9. Multimode graded index fibers use incoherent source only.</li><li>a) True</li><li>b) False</li></ul>                             | Dr. G. Balakrishnan, M.E., Ph.D. Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road |
| 10. In single mode fibers, which is the most beneficial index profile) Step index b) Graded index c) Step and graded index d) Coaxial cable | Manikandam, Trichy-620 0 <b>12.</b><br>le?   |

- 11. The fibers mostly not used nowadays for optical fiber communication system are
- a) Single mode fibers
- b) Multimode step fibers
- c) Coaxial cables
- d) Multimode graded index fibers
- 12. Single mode fibers allow single mode propagation; the cladding diameter must be atleast
- a) Twice the core diameter
- b) Thrice the core diameter
- c) Five times the core diameter
- d) Ten times the core diameter
- 13. A fiber which is referred as non-dispersive shifted fiber is?
- a) Coaxial cables
- b) Standard single mode fibers
- c) Standard multimode fibers
- d) Non zero dispersion shifted fibers
- 14. Standard single mode fibers (SSMF) are utilized mainly for operation in
- a) C-band
- b) L-band
- c) O-band
- d) C-band and L-band



### COLLEGE OF ENGINEERING





15. Fiber mostly suited in single-wavelength transmission in O-band is? a) Low-water-peak non dispersion-shifted fibers b) Standard single mode fibers c) Low minimized fibers d) Non-zero-dispersion-shifted fibers limits receiver sensitivity. Dr. G. Balakrishnan, M.E., Ph.D., a) Noise **Principal** b) Depletion layer Indra Ganesan College of Engineering c) Avalanche IG Valley, Madurai Main Road d) Current Manikandam, Trichy-620 012. performs the linear conversion of the received optical signal into anelectric current. a) Receiver b) Converter c) Detector d) Reflector \_are provided to reduce distortion and to provide a suitable signal shapefor the filter. a) Detector b) Equalizer c) Filters d) Amplifier maximizes the received signal-to-noise ratio in the receiver circuitry. 19. A a) Filter b) Equalizer c) Detector d) Reflector 20. \_\_\_\_can be operated in three connections. a) Reflectors b) Diodes c) LED's d) FET's 21. How many structures of pre-amplifiers exist? a) Two b) Three c) Four d) One

- 22. What is the main factor contributing to the choice of the operational amplifier?
- a) Gain
- b) Impedance
- c) Conductance
- d) Gain-Bandwidth product



Madurai Main Road (NH-45B), Manikandam, Tinuchirappalli - 620 012 Approved by AICTE, NewDollin & Affiliated to Anna University. Chemosi NAAC Accredited, 2(F) Status Institution by UGC



- 23. How many categories of dynamic gain equalizers are available?
- a) One
- b) Two
- c) Three
- d) Four
- 24. How many simultaneous channels can be provided in a band DGE (Dynamic gainequalizer)?
- a) Six
- b) Two
- c) Eight
- d) Ten
- 25. The multiplication factor for the APD varies with the device temperature.
- a) True
- b) False

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NovDelhi & Affillated to Arms University. Chemisi NAAC Accredited, 2(F) Status Institution by UGC



## Value Added Course

## "FIBER OPTIC SYSTEM DESIGN & SIMULATION" MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

### ANSWER KEY

| 1 | A | 6  | A | 11 | A | 16 | A | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | С | 7  | В | 12 | D | 17 | С | 22 | D |
| 3 | A | 8  | В | 13 | В | 18 | В | 23 | В |
| 4 | В | 9  | В | 14 | C | 19 | A | 24 | С |
| 5 | В | 10 | В | 15 | В | 20 | D | 25 | A |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal





Madural Main Road (NH-45B), Manikandem, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chernel NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student: VISTAL V

Year/Sem: IL /IV

AU Register Number: 31221106040

## Value Added Course

## "FIBER OPTIC SYSTEM DESIGN & SIMULATION"

MULTIPLE CHOICE OUESTIONS (25X1 = 25 Marks)

| CHOICE CESTIONS 25AI - 2  | 3 Marks   |
|---|---|
| 1 Multimode step index fiber has  a) Large core diameter & large numerical aperture b) Large core diameter and small numerical aperture c) Small core diameter and large numerical aperture d) Small core diameter & small numerical aperture | $\begin{pmatrix} 21\\25 \end{pmatrix}$  |
| <ul> <li>2. A typically structured glass multimode step index fiber shows as ofattenuation in range of</li> <li>a) 1.2 to 90 dB km<sup>-1</sup> at wavelength 0.69μm</li> </ul>   | variation   |
| b) 3.2 to 30 dB km <sup>-1</sup> at wavelength 0.59μm e) 2.6 to 50 dB km <sup>-1</sup> at wavelength 0.85μm d) 1.6 to 60 dB km <sup>-1</sup> at wavelength 0.90μm   | Dr. G. Balakrishnan, M.E., Ph.D.,   |
| 3. Multimode step index fiber has a large core diameter of range is 100 to 300 µm b) 100 to 300 nm c) 200 to 500 µm d) 200 to 500 nm  | Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 4. Multimode step index fibers have a bandwidth of  |   |
| 5. Multimode graded index fibers are manufactured from materials was Lower purity  by Tighter purity than multimode step index fibers.  c) No impurity  d) Impurity as same as multimode step index fibers.                                   | vith  |
| 6. The performance characteristics of multimode graded index fibers and the fibers by Same as multimode step index fibers   | ате   |
| c) Lesser than multimode step index fibers d) Negligible  |   |
| 7. Multimode graded index fibers have overall buffer jackets same as a stepindex fibers but have core diameters   | multimode   |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Affiliated to Anna University. Chennal



NAAC Accredited, 2(F) Status Institution by UGC a) Larger than multimode step index fibers Sphaller than multimode step index fibers c) Same as that of multimode step index fibers d) Smaller than single mode step index fibers 8. Multimode graded index fibers with wavelength of  $0.85\mu m$  have numerical aperture of 0.29 have core/cladding diameter of a) 62.5 μm/125 μm 5) 100 μm/140 μm c) 85 µm/125 µm d) 50 µm/125µm Dr. G. Balakrishnan, M.E., Ph.D., 9. Multimode graded index fibers use incoherent source only. Principal a) True Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. 10. In single mode fibers, which is the most beneficial index profile? a) Step index b) Graded index c) Step and graded index Coaxial cable 11. The fibers mostly not used nowadays for optical fiber communication system are Single mode fibers b) Multimode step fibers c) Coaxial cables d) Multimode graded index fibers 12. Single mode fibers allow single mode propagation; the cladding diameter must be atleast

a) Twice the core diameter

b) Thrice the core diameter

Fixe times the core diameter

d) Ten times the core diameter

13. A fiber which is referred as non-dispersive shifted fiber is?

a) Coaxial cables

Standard single mode fibers c) Standard multimode fibers

d) Non zero dispersion shifted fibers

14. Standard single mode fibers (SSMF) are utilized mainly for operation in

a) C-band

b) L-band

c) O-band

d)/C-band and L-band



c) Conductance

Jain-Bandwidth product

# Indra Ganesan

### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappaki - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Channai NAAC Accredited, 2(F) Status Institution by UGC



15. Fiber mostly suited in single-wavelength transmission in O-band is? a) Low-water-peak non dispersion-shifted fibers b) Slandard single mode fibers c) Low minimized fibers d) Non-zero-dispersion-shifted fibers Dr. G. Balakrishnan, M.E., Ph.D., limits receiver sensitivity. Whise **Principal** Indra Ganesan College of Engineering b) Depletion layer IG Valley, Madurai Main Road c) Avalanche Manikandam, Trichy-620 012. d) Current 17. A performs the linear conversion of the received optical signal into anelectric current. a) Receiver b) Converter S Detector d) Reflector are provided to reduce distortion and to provide a suitable signal shapefor the filter. a) Detector b) Equalizer Ellters d) Amplifier maximizes the received signal-to-noise ratio in the receiver circuitry. b) Equalizer c) Detector d) Reflector 20. \_\_\_\_ can be operated in three connections. a) Reflectors b) Diodes c) LED'S STEV'S 21. How many structures of pre-amplifiers exist? Je Three c) Four d) One 22. What is the main factor contributing to the choice of the operational amplifier? a) Gain b) Impedance



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Appared by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by EGC



- 23. How many categories of dynamic gain equalizers are available?
- a) One
- b) Two
- c) Three

Four

- 24. How many simultaneous channels can be provided in a band DGE (Dynamic gainequalizer)?
- a) Six
- b) Iwo
- 2) Fight
- d) Ten
- 25. The multiplication factor for the APD varies with the device temperature.
- b) False

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Year/Sem:

**AU Register Number:** 

### Value Added Course

"Heat ventilation Air conditioning Technology"

### MCO QUESTIONS (25X4 = 100 Marks)

1. Types of air conditioning are

a. Comfort air conditioning

b. Industrial air conditioning

c. Both (a) & (b)

d.None

2. Summer air conditioning means

a. Cooling & humidification

b.Cooling & dehumidification

c. Both (a) & (b)

d.None

3. Winter air conditioning means

a. Cooling and humidification

b. Heating & dehumidification

c. Heating and humidification

d. None

4. In comfort air conditioning

a. Total room air recirculates

b. Total fresh air circulates

c. 50-50 room and fresh air circulates

d.None

5. In comfort air conditioning, room air and ventilation air are in the ratio

a. 80:20

b.60:40

c. 40:60

d.None

5. In comfort air conditioning, room air

a. Alone is cooled & then mixed with ventilation air b.Is mixed with ventilation air & then cooled

c. Both (a) & (b)

d.None

7.In operation theatres of comfort air conditioning, the ratio of room air and ventilation air is

a. 100:0

b.0:100

c. 50:50

d.NONE

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



| 8. | ~Inside | design | conditions f | or | comfort air | conditioning | are |
|----|---------|--------|--------------|----|-------------|--------------|-----|
|----|---------|--------|--------------|----|-------------|--------------|-----|

a. 20°C & 80 % RH

b.24°C & 100 % RH

c. 20-24°C & 90 % RH

d.None

9.Inside design conditions for comfort air conditioning are

a. 20-24°C & 80 % RH

b.24-28°C & 100 % RH

c. 22-27°C & 40-60 % RH

d.None

10. In air conditioning, types of loads added are

a. Sensible heat loads

b.Latent heat loads

c. Both (a) & (b)

d.None

11. In comfort air conditioning, which load is more comes from the occupants

a. Sensible heat load

b.Latent heat load

c. Both (a) & (b)

d.None

12. Outside design conditions in comfort air conditioning are

a. Constant

b.Variable

c. Can't say

d. None

13. In order to achieve dehumidification, it is essential to decrease the temperature of air

a. Below wet bulb temperature

b.Dew point temperature

c. Below dry bulb temperature

d. None

14. For heating & humidification of air, it is passed through

a. Water spray & then heated

b.Hot water spray

c. Over the heated surface

d.None

15. The air conditioning used for winter air conditioning is

a. Refrigerator

b.Heat engine

c. Heat pump

d.None

16. The refrigerant used in car air conditioning is

a. Ammonia

b.R-134a

c. R-22

d.None

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Dr. G. Balakrishnan, M.E., Ph.D.,

Manikandam, Trichy-620 012.

17. Fan coil unit is used in air conditioning of a

a. Room

b.Auditorium

c. Both (a) & (b)

d.None



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellni & Affiliated to Aima University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



## 18. Air handling unit is used in the air conditioning of a

a. Room

c. Both (a) and (b)

b.Auditorium

d.None

19. Fan coil unit is used in a

a. Window air conditioner

c. Both (a) & (b)

b.Split air conditioner

d.None

20. Ducts are used with

a. Window air conditioner

c. Both (a) & (b)

b.Split air conditioner

d.None

21. Ducts used in air conditioning are made of

a. Copper

c. Wood

b.GI steel

d.None

22. The best shape of ducts in air conditioning is

a. Round

b.Rectangular

c. Square

d.None

23. Condensers in central air conditioning plants are

a. Air cooled

b.Water cooled

c. Evaporative cooled

d.None

24. Condensers in window air conditioner are

a. Air cooled

b.Water cooled

c. Evaporative cooled

d.None

25. Condensers in air conditioning of auditoriums are

a. Air cooled

b.Water cooled

c. Evaporative cooled

d.None

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal



### COLLEGE OF ENGINEERING





### Value Added Course

### "Heat ventilation Air conditioning Technology"

### ANSWER KEY

| 1 | c | 6  | c | 11 | b | 16 | b | 21 | ь |
|---|---|----|---|----|---|----|---|----|---|
| 2 | ь | 7  | Ъ | 12 | b | 17 | a | 22 | a |
| 3 | С | 8  | d | 13 | ь | 18 | ь | 23 | С |
| 4 | d | 9  | С | 14 | b | 19 | С | 24 | a |
| 5 | a | 10 | С | 15 | c | 20 | d | 25 | ь |

Dr. G. Balaknishman, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

VAC Coordinator



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellni & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student: Fruncura m

AU Register Number: 84 22014 005

Year/Sem: W/ mech

### Value Added Course

"Heat ventilation Air conditioning Technology"

### MCQ QUESTIONS (25X4 = 100 Marks)

| 1. | ц у | pe  | 3 U | 1 9 | air | COI | $\mathbf{u}$ | tion | ung | ar |
|----|-----|-----|-----|-----|-----|-----|--------------|------|-----|----|
|    |     | 7.1 |     |     | 1.0 |     | 5° .         | •    | . 0 |    |
|    | _   |     | 1   | ٠.  |     |     |              |      |     |    |

Comfort air conditioning
c. Both (a) & (b)

b. Industrial air conditioning

d.None

2. Summer air conditioning means

a. Cooling & humidification

c. Both (a) & (b)

b.Cooling & dehumidification

d None

3. Winter air conditioning means

a. Cooling and humidification

c. Heating and humidification

b. Heating & dehumidification

d. None

4. In comfort air conditioning

a Total room air recirculates

c. 50-50 room and fresh air circulates

b. Total fresh air circulates

d .None

5. In comfort air conditioning, room air and ventilation air are in the ratio

a. 80:20

c. 40:60

B.60:40

d.None

5. In comfort air conditioning, room air

a. Alone is cooled & then mixed with ventilation air b.Is mixed with ventilation air & then cooled

c. Both (a) & (b)

d.None

7.In operation theatres of comfort air conditioning, the ratio of room air and ventilation air is

a. 100:0

c. 50:50

b.0:100

d.NONE

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

Administration of the National State of the Arma University, Chemnal

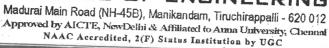


|  | (F) Status Institution by UGC                   |
|--|---|
| 8. Inside design conditions for comfort    | air conditioning are                            |
| a. 20 <sup>0</sup> C & 80 % RH             | b.24°C & 100 % RH                               |
| c. 20-24 <sup>o</sup> C & 90 % RH          | None  |
| 9.Inside design conditions for comfort     | air conditioning are                            |
| a. 20-24°C & 80 % RH                       | b.24-28 <sup>0</sup> C & 100 % RH               |
| (c) 22-27°C & 40-60 % RH                   | d.None  |
| 10. In air conditioning, types of loads ac | lded are  |
| a. Sensible heat loads                     | b.Latent heat loads                             |
| 6. Both (a) & (b)                          | d.None  |
| 11. In comfort air conditioning, which     | load is more comes from the occupants           |
| a. Sensible heat load                      | b.Latent heat load                              |
| c. Both (a) & (b)                          | d.None  |
| 12. Outside design conditions in comfo     | ort air conditioning are                        |
| a. Constant                                | b. Variable                                     |
| c. Can't say                               | d. None   |
|  | on, it is essential to decrease the temperature |
| of air                                     |   |
| a. Below wet bulb temperature              | b. Dew point temperature d. None                |
| c. Below dry bulb temperature              | u. None   |
| 14. For heating & humidification of air, i | t is passed through                             |
| a. Water spray & then heated               | <b>b</b> Hot water spray                        |
| c. Over the heated surface                 | d.None  |
| 15. The air conditioning used for winte    | er air conditioning is                          |
| a. Refrigerator                            | b.Heat engine                                   |
| Heat pump                                  | dNonje  |
| 16. The refrigerant used in car air condit | ioning is usualakrishnan, M.E., Ph              |
| a. Ammonia                                 | Principal Principal                             |
| c. R-22                                    | d.None GG Valley, Madurai Main Road             |
| 17. Fan coil unit is used in air condition | !Vidnikandam Trichy-620 042                     |

a. Room c. Both (a) & (b) b.Auditorium d.None



## COLLEGE OF ENGINEERING





| 18. | Air | handling | unit is  | used | in | the | air | condition | inc   | · 6 - | þ |
|-----|-----|----------|----------|------|----|-----|-----|-----------|-------|-------|---|
|     | 1.5 |          | CLIEB IN | uscu | щ  | une | air | condition | ıng . | of a  | ì |

a. Room

c. Both (a) and (b)

**b**.Auditorium

d.None

19. Fan coil unit is used in a

a. Window air conditioner

Both (a) & (b)

b.Split air conditioner d.None

20. Ducts are used with

a. Window air conditioner

c. Both (a) & (b)

b.Split air conditioner

d.None

21. Ducts used in air conditioning are made of

a. Copper

c. Wood

(b.GI steel

d.None

22. The best shape of ducts in air conditioning is

a Round c. Square

b.Rectangular

d.None

23. Condensers in central air conditioning plants are

a. Air cooled

**Evaporative cooled** 

b.Water cooled

d.None

24. Condensers in window air conditioner are

(a.) Air cooled

b.Water cooled

c. Evaporative cooled

d.None

25. Condensers in air conditioning of auditoriums are

a. Air cooled

c. Evaporative cooled

**b**water cooled

d.None

VAC Coordinator

0

Hop Mech

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Name of the Student:

Year/Sem:

**AU Register Number:** 

### Value Added Course

"Application of Image Processing in Information Technology"

### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1. What is Digital Image Processing?
- a) It's an application that alters digital videos
- b) It's a software that allows altering digital pictures
- c) It's a system that manipulates digital medias
- d) It's a machine that allows altering digital images
- 2. Which of the following process helps in Image enhancement?
- a) Digital Image Processing
- b) Analog Image Processing
- c) Both a and b
- d) None of the above
- 3. Among the following, functions that can be performed by digital image processing is?
- a) Fast image storage and retrieval
- b) Controlled viewing
- c) Image reformatting
- d) All of the above
- 4. Which of the following is an example of Digital Image Processing?
- a) Computer Graphics
- b) Pixels
- c) Camera Mechanism
- d) All of the mentioned
- 5. What are the categories of digital image processing?
- a) Image Enhancement
- b) Image Classification and Analysis
- c) Image Transformation
- d) All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 Apparoed by AICTE, New Delhi & Affiliated to Anna University; Chemosi

NAAC Accredited, 2(F) Status Institution by UGC



- 6. How does picture formation in the eye vary from image formation in a camera?
- a) Fixed focal length
- b) Varying distance between lens and imaging plane
- c) No difference
- d) Variable focal length
- 7. What are the names of the various colour image processing categories?
- a) Pseudo-color and Multi-color processing
- b) Half-color and pseudo-color processing
- c) Full-color and pseudo-color processing
- d) Half-color and full-color processing
- 8. Which characteristics are taken together in chromaticity?
- a) Hue and Saturation
- b) Hue and Brightness
- c) Saturation, Hue, and Brightness
- d) Saturation and Brightness
- 9. Which of the following statement describe the term pixel depth?
- a) It is the number of units used to represent each pixel in RGB space
- b) It is the number of mm used to represent each pixel in RGB space
- c) It is the number of bytes used to represent each pixel in RGB space
- d) It is the number of bits used to represent each pixel in RGB space
- 10. The aliasing effect on an image can be reduced using which of the following methods?
- a) By reducing the high-frequency components of image by clarifying the image
- b) By increasing the high-frequency components of image by clarifying the image
- c) By increasing the high-frequency components of image by blurring the image
- d) By reducing the high-frequency components of image by blurring the image
- 11. Which of the following is the first and foremost step in Image Processing?
- a) Image acquisition
- b) Segmentation
- c) Image enhancement
- d) Image restoration
- 12. Which of the following image processing approaches is the fastest, most accurate, and flexible?
- a) Photographic
- b) Electronic
- c) Digital
- d) Optical
- 13. Which of the following is the next step in image processing after compression
- a) Representation and description
- b) Morphological processing
- c) Segmentation
- d) Wavelets
- 14. determines the quality of a digital image.
- a) The discrete gray levels
- b) The number of samples
- c) discrete gray levels & number of samples
- d) None of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellri & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

- 15. Image processing involves how many steps?
- a) 7
- b) 8
- c) 13
- d) 10
- 16. Which of the following is the abbreviation of JPEG?
- a) Joint Photographic Experts Group
- b) Joint Photographs Expansion Group
- c) Joint Photographic Expanded Group
- d) Joint Photographic Expansion Group
- 17. Which of the following is the role played by segmentation in image processing?
- a) Deals with property in which images are subdivided successively into smaller regions
- b) Deals with partitioning an image into its constituent parts or objects
- c) Deals with extracting attributes that result in some quantitative information of interest
- d) Deals with techniques for reducing the storage required saving an image, or the bandwidth required transmitting it
- 18. The digitization process, in which the digital image comprises M rows and N columns, necessitates choices for M, N, and the number of grey levels per pixel, L. M and N must have which of the following values?
- a) M have to be positive and N have to be negative integer
- b) M have to be negative and N have to be positive integer
- c) M and N have to be negative integer
- d) M and N have to be positive integer
- 19. Which of the following tool is used in tasks such as zooming, shrinking, rotating, etc.?
- a) Filters
- b) Sampling
- c) Interpolation
- d) None of the Mentioned
- 20. he effect caused by the use of an insufficient number of intensity levels in smooth areas of a digital image
- a) False Contouring
- b) Interpolation
- c) Gaussian smooth
- d) Contouring
- 21. What is the procedure done on a digital image to alter the values of its individual pixels known as?
- a) Geometric Spacial Transformation
- b) Single Pixel Operation
- c) Image Registration
- d) Neighbourhood Operations
- 22. Points whose locations are known exactly in the input and reference images are used in Geometric Spacial Transformation.
- a) Known points
- b) Key-points
- c) Réseau points
- d) Tie points

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 820 012 to main resease in Presist, menimentally, indomespiens - 020 u i.e. and by AICTE, NewDelhi & Affiliated to Amin University, Chemnii NAAC Accredited, 3(F) Status Institution by UGC



23. a) MRI scan

is a commercial use of Image Subtraction.

b) CT scan

c) Mask mode radiography

d) None of the Mentioned

24. Approaches to image processing that work directly on the pixels of incoming image work in

a) Spatial domain

b) Inverse transformation

c) Transform domain

d) None of the Mentioned

25. Which of the following in an image can be removed by using a smoothing filter?

a) Sharp transitions of brightness levels

b) Sharp transitions of gray levels

c) Smooth transitions of gray levels

d) Smooth transitions of brightness levels

Dr. G. Balakrishnan, M.E., Ph.D.,



### COLLEGE OF ENGINEERING





## Value Added Course

"Application of Image Processing in Information

### **ANSWER KEY**

| 1 | b | 6  | d | 11 | a | 16 | a | 21 | b |
|---|---|----|---|----|---|----|---|----|---|
| 2 | С | 7  | c | 12 | С | 17 | ь | 22 | d |
| 3 | d | 8  | a | 13 | ь | 18 | d | 23 | c |
| 4 | d | 9  | d | 14 | c | 19 | С | 24 | a |
| 5 | d | 10 | d | 15 | d | 20 | a | 25 | b |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. VAC Coordinator



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai
NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student:

Akash.Y

Year/Sem: \V

**AU Register Number:** 

811219205001

## Value Added Course

"Application of Image Processing in Information Technology"

### MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- 1. What is Digital Image Processing?
- a) It's an application that alters digital videos
- by It's a software that allows altering digital pictures
- c) It's a system that manipulates digital medias
- d) It's a machine that allows altering digital images
- 2. Which of the following process helps in Image enhancement?
- a) Digital Image Processing
- b) Analog Image Processing
- Both a and b
- d) None of the above
- 3. Among the following, functions that can be performed by digital image processing is?
- a) Fast image storage and retrieval
- b) Controlled viewing
- c) Image reformatting
- d) All of the above
- 4. Which of the following is an example of Digital Image Processing?
- a) Computer Graphics
- b) Pixels
- c) Camera Mechanism
- d'All of the mentioned

5. What are the categories of digital image processing?

- a) Image Enhancement
- b) Image Classification and Analysis
- c) Image Transformation
- d) All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



a) The discrete gray levels

b) The number of samples
c) discrete gray levels & number of samples
d) None of the mentioned

## Indra Ganesan

### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 6. How does picture formation in the eye vary from image formation in a camera?   |
|---|
| a) Fixed focal length   |
| b) Varying distance between lens and imaging plane  |
| c) No difference  |
| d) Variable focal length  |
| 7. What are the names of the various colour image processing categories?  |
| a) Pseudo-color and Multi-color processing  |
| b) Half-color and pseudo-color processing   |
| Full-color and pseudo-color processing  |
| d) Half-color and full-color processing   |
| a vitt 1 1 1 2 4 1 1 2 2 4 1 1 2 2 4 1 1 2 2 4 1 1 2 2 4 1 1 2 4 1 1 2 4 1 1 2 4 1 1 1 2 4 1 1 1 2 4 1 1 1 2 4 1 1 1 2 4 1 1 1 2 4 1 1 1 1  |
| 8. Which characteristics are taken together in chromaticity?  |
| a) Hue and Saturation   |
| b) Hue and Brightness c) Saturation, Hue, and Brightness  |
| d) Saturation and Brightness  |
| d) Saturation and Drightness  |
| 9. Which of the following statement describe the term pixel depth?  |
| a) It is the number of units used to represent each pixel in RGB space  |
| b) It is the number of mm used to represent each pixel in RGB space   |
| It is the number of bytes used to represent each pixel in RGB space   |
| d) It is the number of bits used to represent each pixel in RGB space   |
| 10. The aliasing effect on an image can be reduced using which of the following methods?  a) By reducing the high-frequency components of image by clarifying the image b) By increasing the high-frequency components of image by blurring the image c) By increasing the high-frequency components of image by blurring the image d) By reducing the high-frequency components of image by blurring the image |
| 11. Which of the following is the first and foremost step in Image Processing?  |
| a) Image acquisition  |
| b) Segmentation /   |
| c) Image enhancement  |
| d) Image restoration  |
| 12. Which of the following image processing approaches is the fastest, most accurate, and flexible?   |
| a) Photographic   |
| b) Electronic   |
| e) Digital  |
| d) Optical  |
| 13. Which of the following is the next step in image processing after compression?  |
| a) Representation and description   |
| b) Morphological processing   |
| c) Segmentation   |
| d) Wavelets   |
| 14. determines the quality of a digital image. Dr. G. Balakrishnan, M.E., Ph.D.   |



### COLLEGE OF ENGINEERING





| 15. Image processing involves how many steps?  |
|--|
| a) 7   |
| b) 8   |
| c) 13  |
|  |
| d) 10  |
| 16. Which of the following is the abbreviation of JPEG?  |
| a) Joint Photographic Experts Group  |
| b) Joint Photographs Expansion Group   |
| c) Joint Photographic Expanded Group   |
| 1) I - int Direct complice Expansion Group   |
| d) Joint Photographic Expansion Group  |
| 17. Which of the following is the role played by segmentation in image processing?   |
| a) Deals with property in which images are subdivided successively into smaller regions  |
| b) Deals with partitioning an image into its constituent parts or objects  |
| c) Deals with extracting attributes that result in some quantitative information of interest   |
| d) Deals with techniques for reducing the storage required saving an image, or the bandwidth required  |
| d) Deals with techniques for reducing the storage required saving an integral and i |
| transmitting it  |
| 18. The digitization process, in which the digital image comprises M rows and N columns, necessitates  |
| choices for M, N, and the number of grey levels per pixel, L. M and N must have which of the following   |
|  |
| values?  |
| a) M have to be positive and N have to be negative integer   |
| b) M have to be negative and N have to be positive integer   |
| c) M and N have to be negative integer   |
| d) M and N have to be positive integer   |
| and the state of t |
| 19. Which of the following tool is used in tasks such as zooming, shrinking, rotating, etc.?   |
| a) Filters   |
| b) Sampling  |
| a) Interpolation   |
| d) None of the Mentioned   |
| 20. he effect caused by the use of an insufficient number of intensity levels in smooth areas of a digital imag  |
| 20. he effect caused by the use of all mourholds hamber of the   |
| a) False Contouring  |
| b) Interpolation   |
| c) Gaussian smooth   |
| d) Contouring  |
|  |
| 21. What is the procedure done on a digital image to alter the values of its individual pixels known as?   |
| a) Geometric Spacial Transformation  |
| b) Single Pixel Operation  |
| c) Image Registration  |
| A) TITIEDA 7-20  |

22. Points whose locations are known exactly in the input and reference images are used in Geometric

a) Known pointsb) Key-points

d) Neighbourhood Operations

Spacial Transformation.

c) Réseau points

d) Tie points

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



## IIIMIA Adilesali

### COLLEGE OF ENGINEERING





| 23. | 10 2 | commercial | nice of | Fimage | Subtraction  |
|-----|------|------------|---------|--------|--------------|
| 40. | 13 6 | Commercial | use of  | mage   | Bubliaction. |

- a) MRI scan
- b) CT scan
- Mask mode radiography
- d) None of the Mentioned
- 24. Approaches to image processing that work directly on the pixels of incoming image work in
- a) Spatial domain
- b) Inverse transformation
- c) Transform domain
- d) None of the Mentioned
- 25. Which of the following in an image can be removed by using a smoothing filter?
- a) Sharp transitions of brightness levels
- b) Sharp transitions of gray levels
- c) Smooth transitions of gray levels
- d) Smooth transitions of brightness levels

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Approved by AICTE, NewDellii & Affiliated to Arma University, Chennal

Name of the Student:

Meeu atchi. A

Year/Sem:

**AU Register Number:** 

811220 205094

Value Added Course

"Application of Image Processing in Information Technology"

**MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)** 

- 1. What is Digital Image Processing?
- (a) It's an application that alters digital videos
  - b) It's a software that allows altering digital pictures
  - c) It's a system that manipulates digital medias
- d) It's a machine that allows altering digital images.
- 2. Which of the following process helps in Image enhancement?
- a) Digital Image Processing
- b) Analog Image Processing
- c) Both a and b
- d) None of the above
- 3. Among the following, functions that can be performed by digital image processing is?
- a) Fast image storage and retrieval
- b) Controlled viewing
- c) Image reformatting
- d) All of the above
- 4. Which of the following is an example of Digital Image Processing?
- a) Computer Graphics
- b) Pixels
- c) Camera Mechanism
- d) All of the mentioned
- 5. What are the categories of digital image processing?
- a) Image Enhancement
- b) Image Classification and Analysis
- c) Image Transformation
- d) All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Cheuna NAAC Accredited, 2(F) Status Institution by UGC



6. How does picture formation in the eye vary from image formation in a camera?

- a) Fixed focal length
- b) Varying distance between lens and imaging plane
- c) No difference
- d) Variable focal length
- 7. What are the names of the various colour image processing categories?
- a) Pseudo-color and Multi-color processing
- b) Half-color and pseudo-color processing
- c) Full-color and pseudo-color processing
- d) Half-color and full-color processing
- 8. Which characteristics are taken together in chromaticity?
- a) Hue and Saturation
- b) Hue and Brightness
- c) Saturation, Hue, and Brightness
- d) Saturation and Brightness
- 9. Which of the following statement describe the term pixel depth?
- a) It is the number of units used to represent each pixel in RGB space
- b) It is the number of mm used to represent each pixel in RGB space
- c) It is the number of bytes used to represent each pixel in RGB space
- d) It is the number of bits used to represent each pixel in RGB space
- 10. The aliasing effect on an image can be reduced using which of the following methods?
- a) By reducing the high-frequency components of image by clarifying the image
- b) By increasing the high-frequency components of image by clarifying the image
- c) By increasing the high-frequency components of image by blurring the image
- d) By reducing the high-frequency components of image by blurring the image
- 11. Which of the following is the first and foremost step in Image Processing?
- a) Image acquisition
- b) Segmentation
- c) Image enhancement
- d) Image restoration
- 12. Which of the following image processing approaches is the fastest, most accurate, and flexible?
- a) Photographic
- b) Electronic
- c) Digital
- d) Optical
- 13. Which of the following is the next step in image processing after compression?
- a) Representation and description
- b) Morphological processing
- c) Segmentation
- d) Wavelets

14. \_\_\_\_\_ determines the quality of a digital image.

- a) The discrete gray levels
- b) The number of samples
- c) discrete gray levels & number of samples
- d) None of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



# Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

red by AICTE, NewDelin & Affiliated to Anna University, Cl



NAAC Accredited, 2(F) Status Institution by UGC 15. Image processing involves how many steps?

a) 7

b) 8

c) 13

dt 10

16. Which of the following is the abbreviation of JPEG?

a) Joint Photographic Experts Group

b) Joint Photographs Expansion Group

c) Joint Photographic Expanded Group

Joint Photographic Expansion Group

17. Which of the following is the role played by segmentation in image processing?

a) Deals with property in which images are subdivided successively into smaller regions

b) Deals with partitioning an image into its constituent parts or objects

c) Deals with extracting attributes that result in some quantitative information of interest

(d) Deals with techniques for reducing the storage required saving art image, or the bandwidth required

18. The digitization process, in which the digital image comprises M rows and N columns, necessitates choices for M, N, and the number of grey levels per pixel, L. M and N must have which of the following

a) M have to be positive and N have to be negative integer

b) M have to be negative and N have to be positive integer-

c) M and N have to be negative integer

d) M and N have to be positive integer

19. Which of the following tool is used in tasks such as zooming, shrinking, rotating, etc.?

b) Sampling

c) Interpolation

d) None of the Mentioned

20. he effect caused by the use of an insufficient number of intensity levels in smooth areas of a digital image

a) False Contouring

め) Interpolation

c) Gaussian smooth

d) Contouring

21. What is the procedure done on a digital image to alter the values of its individual pixels known as?

a) Geometric Spacial Transformation

b) Single Pixel Operation

//>
// Image Registration

d) Neighbourhood Operations

22. Points whose locations are known exactly in the input and reference images are used in Geometric Spacial Transformation.

A) Known points

b) Key-points

c) Réseau points

d) Tie points

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012



Approved by AICTE, NewDelth & Affiliated to Anna University, Chemna NAAC Accredited, 2(F) Status Institution by UCC.

- a) MRI scan
- b) CT scan
- c) Mask mode radiography
- d) None of the Mentioned
- 24. Approaches to image processing that work directly on the pixels of incoming image work in
- a) Spatial domain
- b) Inverse transformation
- c) Transform domain
- d) None of the Mentioned
- 25. Which of the following in an image can be removed by using a smoothing filter?
- a) Sharp transitions of brightness levels
- (b) Sharp transitions of gray levels
- c) Smooth transitions of gray levels
- d) Smooth transitions of brightness levels

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Name of the Student:

Year/Sem:

**AU Register Number:** 

## Value Added Course

"Course on "LATEX"

## MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)

- 1. What does the command \documentclass{article} do in LaTeX?
- a) It sets the document class as an article
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It creates a new document
- 2. What is the purpose of the command \usepackage{graphicx} in LaTeX?
- a) It sets the page margins
- b) It includes graphics into the document
- c) It adds a table of contents
- d) It sets the font size
- 3. What does the command \textbf{} do in LaTeX?
- a) It creates a new bold section
- b) It sets the font size to bold
- c) It creates a new paragraph
- d) It sets the text to bold

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madural Mein Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Affiliaded to Anna University, Chexami NAAC Accredited, 2(F) Status Fastitution by UGC

## 4. What is the purpose of the command \tableofcontents in LaTeX?

- a) It sets the page margins
- b) It includes graphics into the document
- c) It adds a table of contents
- d) It sets the font size

## 5. What does the command \begin{center} do in LaTeX?

- a) It creates a new center-aligned section
- b) It sets the font size to center-aligned
- c) It creates a new paragraph
- d) It centers the text or content

## 6. What is the purpose of the command \newpage in LaTeX?

- a) It creates a new section in the document
- b) It sets the page margins
- c) It starts a new page
- d) It sets the font style of the document

## 7. What does the command \footnote{} do in LaTeX?

- a) It adds a footnote to the bottom of the page
- b) It creates a new bold section
- c) It creates a new paragraph
- d) It sets the text to italic

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madural Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDellit & Affiliated to Arma University, Chemical NAAC Accredited, 2(F) Status Institution by UGC

## 8. What is the purpose of the command \maketitle in LaTeX?

- a) It sets the page margins
- b) It creates a new section in the document
- c) It adds a title to the document
- d) It sets the font size

## 9. What does the command \emph{} do in LaTeX?

- a) It creates a new bold section
- b) It sets the text to bold
- c) It creates a new paragraph
- d) It sets the text to emphasize

## 10. What is the purpose of the command \pagestyle{} in LaTeX?

- a) It sets the font style of the document
- b) It adds page numbers to the document
- c) It sets the page margins
- d) It creates a new section in the document

## 11. What does the command \section{} do in LaTeX?

- a) It creates a new section in the document
- b) It sets the font size to section level
- c) It sets the font style to section level
- d) It creates a new paragraph

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madurai Main Road (NH-45B), Manikandam, Tiruchirappaili - 820 012 Appared by AICTE, NewDellit & Affiliated to Amon University, Chesmal NAAC Accredited, 2(F) Status Eastitution by UGC

## 12. What is the purpose of the command \label{} in LaTeX?

- a) It adds a label to an equation or figure for referencing
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It adds a label to a section for referencing

## 13. What does the command \cite{} do in LaTeX?

- a) It adds a citation to a reference list
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It sets the text to italic

## 14. What is the purpose of the command \caption{} in LaTeX?

- a) It adds a caption to an equation or figure for referencing
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It adds a caption to a section for referencing

## 15. What does the command \textit{} do in LaTeX?

- a) It creates a new italic section
- b) It sets the font size to italic
- c) It creates a new paragraph
- d) It sets the text to italic

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICFE, New Dalli & Affiliated to Ames University, Chemosi NAAC Accredited, 2(F) Status Institution by UGC

## 16. What is the purpose of the command \subsection{} in LaTeX?

- a) It creates a new subsection in the document
- b) It sets the font size to subsection level
- c) It sets the font style to subsection level
- d) It creates a new paragraph

### 17. What does the command \texttt{} do in LaTeX?

- a) It creates a new typewriter-style section
- b) It sets the font size to typewriter style
- c) It creates a new paragraph
- d) It sets the text to typewriter style

## 18. What is the purpose of the command \cite{} in LaTeX?

- a) It creates a citation for a reference in the bibliography
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It sets the page margins

## 19. What does the command \textsc{} do in LaTeX?

- a) It sets the text to small caps
- b) It creates a new section in the document
- c) It sets the font style to small caps
- d) It creates a new paragraph

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





20. What is the purpose of the command \footnote{} in LaTeX?

- a) It adds a footnote to a page
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It creates a new paragraph

### 21. What does the command \tableofcontents do in LaTeX?

- a) It creates a table of figures in the document
- b) It creates a table of equations in the document
- c) It creates a table of contents in the document
- d) It creates a table of references in the document

## 22. What is the purpose of the command \includegraphics{} in LaTeX?

- a) It includes an image in the document
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It adds a label to an equation or figure for referencing

### 23. What does the command \emph{} do in LaTeX?

- a) It creates a new emphasized section
- b) It sets the font size to emphasized
- c) It creates a new paragraph
- d) It sets the text to emphasize

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Approved by AICTE, New Defin & Affiliated to Arom University, Chemosi
NAAC Accredited, 2(F) Status Institution by UGC



## 24. What is the purpose of the command \begin{enumerate} in LaTeX?

- a) It creates an enumerated list
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It sets the page margins

## 25. What does the command \textsuperscript{} do in LaTeX?

- a) It creates a new superscript section
- b) It sets the font size to superscript
- c) It creates a new paragraph
- d) It sets the text to superscript

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



112

Medurai Main Road (NH-45B), Manikandam, Tiruchirappaili - 620 012
Approved by AICTE, NewDellit & Affiliated to Arana University, Chapman NAAC Accredited, 2(F) Status Institution by UGC

## "Value added Course

## Course on LATEX "

## ANSWER KEY

| 1 | а | 6  | С | 11 | a | 16 | a | 21 | C |
|---|---|----|---|----|---|----|---|----|---|
| 2 | b | 7  | a | 12 | a | 17 | d | 22 | a |
| 3 | d | 8  | С | 13 | a | 18 | a | 23 | d |
| 4 | c | 9  | đ | 14 | a | 19 | a | 24 | a |
| 5 | d | 10 | b | 15 | d | 20 | a | 25 | d |

T. Kalaivan

**VAC Coordinator** 

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemisi NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Vigneshleuman . M 811222205056

Year/Sem:

**AU Register Number:** 

## Value Added Course

"Course on "LATEX"

### **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)**

- 1. What does the command \documentclass{article} do in LaTeX?
- a) It sets the document class as an article
- (b) It creates a new section in the document
- c) It sets the font style of the document
- d) It creates a new document
- 2. What is the purpose of the command \usepackage{graphicx} in LaTeX?
- a) It sets the page margins
- (b) It includes graphics into the document
- c) It adds a table of contents
- d) It sets the font size
- 3. What does the command \textbf{} do in LaTeX?
- a) It creates a new bold section
- b) It sets the font size to bold
- c) It creates a new paragraph
- d) It sets the text to bold

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

## 4. What is the purpose of the command \tableofcontents in LaTeX?

- a) It sets the page margins
- b) It includes graphics into the document
- c) It adds a table of contents
- d) It sets the font size

## 5. What does the command \begin{center} do in LaTeX?

- a) It creates a new center-aligned section
- b) It sets the font size to center-aligned
- c) It creates a new paragraph
- d) It centers the text or content

## 6. What is the purpose of the command \newpage in LaTeX?

- a) It creates a new section in the document
- b) It sets the page margins
- c) It starts a new page
- d) It sets the font style of the document

## 7. What does the command \footnote{} do in LaTeX?

- (a) It adds a footnote to the bottom of the page
- b) It creates a new bold section
- c) It creates a new paragraph
- d) It sets the text to italic

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelbi & Affiliated to Anna University, Chennal
NAAC Accredited, 2(F) Status Institution by UGC

## 8. What is the purpose of the command \maketitle in LaTeX?

- a) It sets the page margins
- b) It creates a new section in the document
- c) It adds a title to the document
- d) It sets the font size



## 9. What does the command \emph{} do in LaTeX?

- a) It creates a new bold section
- b) It sets the text to bold
- c) It creates a new paragraph
- d) It sets the text to emphasize

## 10. What is the purpose of the command \pagestyle{} in LaTeX?

- a) It sets the font style of the document
- b) It adds page numbers to the document
- c) It sets the page margins
- d) It creates a new section in the document

## 11. What does the command \section{} do in LaTeX?

- a) It creates a new section in the document
- b) It sets the font size to section level
- c) It sets the font style to section level
- d) It creates a new paragraph

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemosl NAAC Accredited, 2(F) Status Institution by UGC

## 12. What is the purpose of the command \label{} in LaTeX?

- a) It adds a label to an equation or figure for referencing
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It adds a label to a section for referencing

## 13. What does the command \cite{} do in LaTeX?

- a) It adds a citation to a reference list
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It sets the text to italic

### 14. What is the purpose of the command \caption{} in LaTeX?

- (a) It adds a caption to an equation or figure for referencing
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It adds a caption to a section for referencing

### 15. What does the command \textit{} do in LaTeX?

- a) It creates a new italic section
- b) It sets the font size to italic
- c) It creates a new paragraph
- d) It sets the text to italic

Dr. G. Baiakrishiidis, Mill., Time.

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Cla NAAC Accredited, 2(F) Status Institution by UGC

## 16. What is the purpose of the command \subsection{} in LaTeX?

- a) It creates a new subsection in the document
- b) It sets the font size to subsection level
- c) It sets the font style to subsection level
- d) It creates a new paragraph

## 17. What does the command \texttt{} do in LaTeX?

- a) It creates a new typewriter-style section
- b) It sets the font size to typewriter style
- c) It creates a new paragraph
- d) It sets the text to typewriter style

## 18. What is the purpose of the command \cite{} in LaTeX?

- a) It creates a citation for a reference in the bibliography
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It sets the page margins

## 19. What does the command \textsc{} do in LaTeX?

- a) It sets the text to small caps
- b) It creates a new section in the document
- c) It sets the font style to small caps
- d)) It creates a new paragraph

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemisi NAAC Accredited, 2(F) Status Institution by UGC

## 20. What is the purpose of the command \footnote{} in LaTeX?

- a) It adds a footnote to a page
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It creates a new paragraph

### 21. What does the command \tableofcontents do in LaTeX?

- a) It creates a table of figures in the document
- b) It creates a table of equations in the document
- c) It creates a table of contents in the document
- d) It creates a table of references in the document

## 22. What is the purpose of the command \includegraphics{} in LaTeX?

- (a) It includes an image in the document
- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It adds a label to an equation or figure for referencing

### 23. What does the command \emph{} do in LaTeX?

- a) It creates a new emphasized section
- b) It sets the font size to emphasized
- c) It creates a new paragraph
- d) It sets the text to emphasize

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

## 24. What is the purpose of the command \begin{enumerate} in LaTeX?

a) It creates an enumerated list

- b) It creates a new section in the document
- c) It sets the font style of the document
- d) It sets the page margins

## 25. What does the command \textsuperscript{} do in LaTeX?

- a) It creates a new superscript section
- b) It sets the font size to superscript
- c) It creates a new paragraph
- d) It sets the text to superscript

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tinuchinappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemni NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student : AU Register Number:

Year/Sem:

Value Added Course on "Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS"

## ASSESSMENT QUESTIONS (1X100 = 100 Marks)

A)To determine the impact of Organizational Commitment and Job satisfaction on the perceived performance of the Employee in an organization. There are factors like:

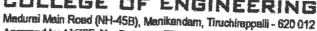
- · Organizational rewards
- Family support
- Supervisor support
- Favorable working conditions that affect the organizational commitment level of an employee.

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 



# COLLEGE OF ENGINEERING





Approved by AICTE, NewDelhi & Affiliated to Anna University; Chennal NAAC Accredited, 2(F) Status Institution by UGC

## Value Added Course on "Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS"

## ANSWER KEY

A) The codes that are included in the model for representing different factors and variables are shown below:

| Factors or Variables              | Code |
|-----------------------------------|------|
| Perceived Performance (Dependent) | pp   |
| Organizational Commitment         | OC   |
| Organizational Rewards            | oc1  |
| Family Support                    | oc2  |
| Supervisor Support                | oc3  |
| Favourable Working Condition      | oc4  |
| Job Satisfaction                  | JS   |
| Advancement Opportunity           | js1  |
| Workload                          | js2  |
| Relationship with Supervisor      | js3  |
| Financial Rewards                 | js4  |

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 





Medurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellif & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

| Name of category         | Name of index  | Adequate fit      | Indon Makes | 0                                 |
|--------------------------|----------------|-------------------|-------------|-----------------------------------|
| ,                        | HOUSE OF THOOK | vandage is        | Index Value | Comments                          |
| Absolute Fit measure     | CMIN/Df        | Less than 5       | 1.540       | The required level is derived     |
|                          | GFI            | Greater than 0.90 | 0.983       | The required level is derived     |
|                          | AGFI           | Greater than 0.90 | 0.962       | The required level is derived     |
|                          | RMSEA          | Less than 0.10    | 0.037       | The required level is derived     |
| Incremental fit measure  | NFI            | Greater than 0.90 | 0.989       | The required level is derived     |
|                          | CFI            | Greater than 0.90 | 0.996       | The required level is derived     |
|                          | TLI            | Greater than 0.90 | 0.993       | The required level is derived     |
|                          | IFI            | Greater than 0.90 | 0.996       | The required level is derived     |
| Parsimonious fit measure | PGFI           | Greater than 0.50 | 0.437       | The required level is not derived |
|                          | PCFI           | Greater than 0.50 | 0.553       | The required level is derived     |
|                          | PNFI           | Greater than 0.50 | 0.550       | The required level is derived     |

Dr. G. Balakrishnan, M.E., Ph.D.,





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Project Management in PRIMAVERA"

## MCO QUESTIONS (25X1= 25 Marks)

- 1. Identify one project intense industries where Primavera has a significant presence.
  - a) Oil and Gas
  - b) Communications
  - c) Health Sciences
  - d) Tax
- 2. What is the significance of assigning the Responsible Manager to an EPS Node
  - a) It assigns a generic resource to the EPS
  - b)

It assigns a named resource to the EPS

- c) It links the EPS to an OBS element
- d)

It links the EPS to management reports

- 3. Identify the field that must be unique in Primavera.
  - a) Project Name
  - b) Project Description
  - c) Project ID
  - d) Project Manager
- 4. Identify a relevant use case for applying a Must Finish By date to a project.
  - a) Compare Scheduled Finish to Must Finish By dates to negotiate realistic Finish dates
  - b) Apply Must Finish By dates to shorten the duration of the schedule
  - c) Apply Must Finish By dates to build case for requesting resources
  - d) .Compare Must Finish By date to Actual Finish Date to negotiate realistic Finish dates
- 5. Identify one example of Enterprise specific data.
  - a) Enterprise Project Structure
  - b) Activities
  - c) Baselines
  - d) Expenses
- 6. What takes the highest precedence during Resource Leveling?

Dr. G. Balakrishnan, M.E., Ph.D.,



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- c) Enterprise breakdown system
- d) Enery broken system
- 14. How many controlling capability in primavera
  - a) 5
  - b) 3
  - c) 7
  - d) 2
- 15. Where are tolerances set in Primavera P6 EPPM?
  - a) in Global Preferences
  - b) In Performance Thresholds
  - c) In Performance Status tab
  - d) In Portfolios

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

- 16. Select the true statement regarding Global Change.
  - a) Global change can modify Global Codes.
  - b) Global Change can replace existing project data with new data.
  - c) Global change can be executed by any user.
  - d) Global change can modify Global Security Profiles.
- 17. The two global profiles that are hard-coded In the system and cannot be deleted or changed are and
  - a. No Global Privileges
  - b. IT Administrator
  - c. Admin Super User
  - d. System Administrator
  - e. Project Manager
- 18. In the client application, Timescale relationships are shown by selecting which value from the Layout Options bar?
  - a) Group and Sort
  - b) Timescale
  - c) Bar Chart Options
  - d) Bars
- 19. Select two true statements regarding Calendars.
  - a) Global Calendars are available to a subset of projects.
  - b) Only a limited number of calendars can be created
  - c) Project Calendars are available for the current project only.
  - d) Activity Calendars are managed by individual Resources.
  - e) Activity type determines whether the activity uses Resource Calendars for scheduling



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- a) Leveling priority
- b) Mandatory constraint
- c) Topological sequent
- d) .Resource Calendar
- 7. Cost Variance is calculated as
  - a) Earned Value Cost Actual Cost
  - b) the Actual Cost of Work Performed
  - c) the Budgeted Cost of Work Scheduled
  - d) Budget at Completion Earned Value Cost
- 8. You are a Portfolio Manager looking for a new portfolio that you manually created for you have clicked the Group by drop-down list in Portfolios. Which option should you select to quickly find your portfolio?
  - a) Global Portfolio
  - b) Global Filtered Portfolio
  - c) User Portfolio
  - d) User Filtered Portfolio
- 9. Where "User Defined Fields" are typically maintained?
  - a) in the Web interface, in the preferences section
  - b) in the Client interface by the system administrator
  - c) in the Web interface, on the Activities tab
  - d) in the Client interface under Admin Preferences
- 10. An activity has an Original Duration of 10, and a Remaining Duration of 10. The Actual Start is assigned to the activity. Physical % is updated to equal 80%. What is the Remaining Duration for this activity?
  - a) 80
  - b) 10
  - c) 2
  - d) 8
- 11. Stands for WBS
  - a) Work breakdown structure
  - b) Work breakup structure
  - c) World breakdown structure
  - d) World breakup structure
- 12. Full form of OBS
  - a) Orgazational breakdown structure
  - b) Optional breakdown structure
  - c) Official breakdown structure
  - d) Orgazational broken system.
- 13. Full form of EPS
  - a) Entertainment breakdown structure
  - b) Enterprise breakdown structure

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



## LEGE OF ENGINEER

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- 20. Which program must be run to create sales Invoices in the Accounts Receivable system?
  - a) the Invoice Print program (R03B305)
  - b) the Sales Update program (R42800)
- 21. What should you do to change the method of allocation for an existing recurring journal entry from amount to percent?
  - a) Change the recurring frequency of the allocation journal.
  - b) Change the method on the remaining number of recurring journals.
  - c) Delete the recurring journal and add a new one.
  - d) Create different versions of the Recurring JE Compute & Print program.
- 22. Which two statements are true regarding the address book audit log feature?
  - a) You can set it up to record new records only.
  - b) You can set it up to record new records that have been entered and changes to existing records.
  - c) You can set it up to record changes to existing records.
  - d) It is a user preference.
  - e) You can set it up to record deleted records only.
- 23. Which field or fields make up the unique key(s) that link the Receipt Header table (F03B13) to the Receipt Detail (F03BI4) table?
  - a) G/L Date (DGJ), Receipt Number (CKNU) and Company (CO)
  - b) Receipt Number (CKNU)
  - c) Payment ID (PYID)
  - d) Payment ID (PYID) and Receipt Number (CKNU)
- 24. Which two are Regional resources in Oracle Cloud Infrastructure?
  - a) A. Ephemeral public IPs
  - b) Compartments
  - c) Compute images
  - d) Dynamic groups
  - e) Block volume backups
- 25. An Oracle Cloud Infrastructure tenancy administrator is not able to delete a user in the tenancy. What can cause this issue?
  - a) User has multi-factor authentication (MFA) enabled.
  - b) User is member of an Identity and Access Management (IAM) group.
  - c) Users can be blocked but not deleted.
  - d) User needs to be deleted from federation Identity Provider (IdP) before deleting from

Dr. G. Balakrishnan, M.E., Ph.D., Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

## Value Added Course

## **Project Management in PRIMAVERA**

## **ANSWER KEY**

| 1 | a | 6  | d | 11 | a | 16 | b   | 21 | a   |
|---|---|----|---|----|---|----|-----|----|-----|
| 2 | c | 7  | a | 12 | a | 17 | a   | 22 | a   |
| 3 | a | 8  | c | 13 | b | 18 | b   | 23 | a   |
| 4 | a | 9  | ъ | 14 | С | 19 | d,e | 24 | b,d |
| 5 | a | 10 | b | 15 | b | 20 | a   | 25 | a   |

VAC coordinator

Dr. G. Balakrishgan, M.E., Ph.D.

Principal



c) Baselinesd) Expenses

a) Leveling priorityb) Mandatory constraint

6. What takes the highest precedence during Resource Leveling?

# Indra Ganesan

## COLLEGE OF ENGINEERING





| Name of the Student: Tys   | apan Mari   | Year/Sem: Dern  |
|--|---|---|
| AU Register Number: 842  | 20103020  | (20)  |
| Value Added Course   | e on "Project Management  | in PRIMAVERA 25   |
| MCC  | ) QUESTIONS (25X1= 25 Mai   | rks)  |
| 1. Identify one project impresence.  a) Oil and Gas b) Communication c) Health Sciences d) Tax 2. What is the significance a) It assigns a general book of the companient of t | tense industries where Primavents  see of assigning the Responsible eric resource to the EPS  ned resource to the EPS  to an OBS element  to management reports nust be unique in Primavera.  tion  or  case for applying a Must Finish luled Finish to Must Finish By nish By dates to shorten the dunish By dates to build case for Finish By date to Actual Finish | Dr. G. Balakrishnan, M.E., Ph.D.  Principal Indra Ganesan College of Engineering IG Valley, Madurai Manikandam, Trichy-620 012. Sh By date to a project. Indicate the date of the schedule requesting resources |
| a) Enterprise Proje  |   |   |
| 6 Activities   |   |   |



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappaili - 620 012 Approved by AICTE, NewDellni & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- c) Topological sequent
  <a href="#">C. Resource Calendar</a>
- 7. Cost Variance is calculated as
  - a) Earned Value Cost Actual Cost
  - (b) the Actual Cost of Work Performed
  - c) the Budgeted Cost of Work Scheduled
  - d) Budget at Completion Earned Value Cost
- 8. You are a Portfolio Manager looking for a new portfolio that you manually created for you have clicked the Group by drop-down list in Portfolios. Which option should you select to quickly find your portfolio?
  - a) Global Portfolio
  - 6) Global Filtered Portfolio
  - c) User Portfolio
  - d) User Filtered Portfolio
- 9. Where "User Defined Fields" are typically maintained?
  - a) in the Web interface, in the preferences section
  - in the Client interface by the system administrator
  - c) in the Web interface, on the Activities tab
  - d) in the Client interface under Admin Preferences
- 10. An activity has an Original Duration of 10, and a Remaining Duration of 10. The Actual Start is assigned to the activity. Physical % is updated to equal 80%. What is the Remaining Duration for this activity?
  - a) 80
  - 202
    - d) 8
- 11. Stands for WBS
  - (a) Work breakdown structure
  - b) Work breakup structure
  - c) World breakdown structure
  - d) World breakup structure
- 12. Full form of OBS
  - a) Orgazational breakdown structure
  - (b) Optional breakdown structure
    - c) Official breakdown structure
    - d) Orgazational broken system.
- 13. Full form of EPS
  - a) Entertainment breakdown structure
  - 6 Enterprise breakdown structure
    - c) Enterprise breakdown system
    - d) Enery broken system

()···

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan Cultion: W Engineering IG valley, Macural Mein Road Manikandani, Trichy-620 012.



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



| 14. | How | many | control                                   | ling ca | apabilit | y in                | primavera | 1 |
|-----|-----|------|---|---------|----------|---------------------|-----------|---|
|     | 4.5 |      | er en |         |          | of the state of the | I         |   |

a) 5

**b** 3 **c**) 7

d) 2

## 15. Where are tolerances set in Primavera P6 EPPM?

- a) in Global Preferences
- b) In Performance Thresholds

In Performance Status tab

d) In Portfolios

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan Callege of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012.

16. Select the true statement regarding Global Change.

a) Global change can modify Global Codes.

6 Global Change can replace existing project data with new data.

c) Global change can be executed by any user.

d) Global change can modify Global Security Profiles.

17. The two global profiles that are hard-coded In the system and cannot be deleted or changed are and

a No Global Privileges

b. IT Administrator

c. Admin Super User

d. System Administrator

e. Project Manager

18. In the client application, Timescale relationships are shown by selecting which value from the Layout Options bar?

a) Group and Sort

b) Timescale

Bar Chart Options

d) Bars

19. Select two true statements regarding Calendars.

a) Global Calendars are available to a subset of projects.

b) Only a limited number of calendars can be created

Project Calendars are available for the current project only.

d) Activity Calendars are managed by individual Resources.

Activity type determines whether the activity uses Resource Calendars for scheduling

20. Which program must be run to create sales Invoices in the Accounts Receivable system?

(a) the Invoice Print program (R03B305)



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



b) the Sales Update program (R42800)

21. What should you do to change the method of allocation for an existing recurring journal entry from amount to percent?

Change the recurring frequency of the allocation journal.

b) Change the method on the remaining number of recurring journals.

c) Delete the recurring journal and add a new one.

- d) Create different versions of the Recurring JE Compute & Print program.
- 22. Which two statements are true regarding the address book audit log feature?

(a) You can set it up to record new records only.

- You can set it up to record new records that have been entered and changes to existing records.
  - c) You can set it up to record changes to existing records.

d) It is a user preference.

e) You can set it up to record deleted records only.

23. Which field or fields make up the unique key(s) that link the Receipt Header table (F03B13) to the Receipt Detail (F03B14) table?

(a) G/L Date (DGJ), Receipt Number (CKNU) and Company (CO)

8) Receipt Number (CKNU)

c) Payment ID (PYID)

- d) Payment ID (PYID) and Receipt Number (CKNU)
- 24. Which two are Regional resources in Oracle Cloud Infrastructure?

a) A. Ephemeral public IPs

(M) Compartments

c) Compute images

d) Dynamic groups

e) Block volume backups

25. An Oracle Cloud Infrastructure tenancy administrator is not able to delete a user in the tenancy. What can cause this issue?

(a) User has multi-factor authentication (MFA) enabled.

b) User is member of an Identity and Access Management (IAM) group.

c) Users can be blocked but not deleted.

d) User needs to be deleted from federation Identity Provider (IdP) before deleting from

(D.:-

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indr. Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student: Mahendran . M

Year/Sem: D C

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madural Main Read

Manikandam, Trichy-628 U12.

**AU Register Number:** 

811218103002

Value Added Course on "Project Management in PRIMAVERA"

## MCO QUESTIONS (25X1=25 Marks)

- 1. Identify one project intense industries where Primavera has a significant presence.
  - (a) Oil and Gas
  - b) Communications
  - c) Health Sciences
  - d) Tax
- 2. What is the significance of assigning the Responsible Manager to an EPS Node
  - a) It assigns a generic resource to the EPS

It assigns a named resource to the EPS

(c)) It links the EPS to an OBS element

It links the EPS to management reports

- 3. Identify the field that must be unique in Primavera.
  - (a) Project Name
  - b) Project Description
  - c) Project ID
  - d) Project Manager

4. Identify a relevant use case for applying a Must Finish By date to a project.

- (a) Compare Scheduled Finish to Must Finish By dates to negotiate realistic Finish dates
- b) Apply Must Finish By dates to shorten the duration of the schedule
- c) Apply Must Finish By dates to build case for requesting resources
- d) .Compare Must Finish By date to Actual Finish Date to negotiate realistic Finish dates
- 5. Identify one example of Enterprise specific data.
  - (a) Enterprise Project Structure
  - b) Activities
  - c) Baselines
  - d) Expenses
- 6. What takes the highest precedence during Resource Leveling?
  - a) Leveling priority
  - b) Mandatory constraint



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelini & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- c) Topological sequent
- d) .Resource Calendar
- 7. Cost Variance is calculated as
  - (a) Earned Value Cost Actual Cost
  - b) the Actual Cost of Work Performed
  - c) the Budgeted Cost of Work Scheduled
  - d) Budget at Completion Earned Value Cost
- 8. You are a Portfolio Manager looking for a new portfolio that you manually created for you have clicked the Group by drop-down list in Portfolios. Which option should you select to quickly find your portfolio?
  - a) Global Portfolio
  - b) Global Filtered Portfolio
  - c) User Portfolio
  - d User Filtered Portfolio
- 9. Where "User Defined Fields" are typically maintained?
  - a) in the Web interface, in the preferences section
  - (b) in the Client interface by the system administrator
  - c) in the Web interface, on the Activities tab
  - d) in the Client interface under Admin Preferences
- 10. An activity has an Original Duration of 10, and a Remaining Duration of 10. The Actual Start is assigned to the activity. Physical % is updated to equal 80%. What is the Remaining Duration for this activity?
  - a) 80
  - **6** 10
  - ನ 🤈
  - d) 8
- 11. Stands for WBS
  - (a) Work breakdown structure
  - b) Work breakup structure
  - c) World breakdown structure
  - d) World breakup structure
- 12. Full form of OBS
  - a) Orgazational breakdown structure
  - (b) Optional breakdown structure
  - c) Official breakdown structure
  - d) Orgazational broken system.
- 13. Full form of EPS
  - a) Entertainment breakdown structure
  - b) Enterprise breakdown structure
  - c) Enterprise breakdown system
  - d) Enery broken system

(D).

Dr. G. Balakrishnan, M.E., Ph.D.,

Princeal
Indra Ganesan College of Engineering

IG valley, Madural Main Road Manikangam, Trichy-620 012.



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



14. How many controlling capability in primavera

- a) 5
- **6**) 3
- · c) 7
  - d) 2

15. Where are tolerances set in Primavera P6 EPPM?

- a) in Global Preferences
- (b) In Performance Thresholds
- c) In Performance Status tab
- d) In Portfolios

Pr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 812.

16. Select the true statement regarding Global Change.

a) Global change can modify Global Codes.

- 6 Global Change can replace existing project data with new data.
- c) Global change can be executed by any user.
- d) Global change can modify Global Security Profiles.
- 17. The two global profiles that are hard-coded In the system and cannot be deleted or changed are and
  - a. No Global Privileges
  - . **(b)** IT Administrator
    - c. Admin Super User
    - d. System Administrator
    - e. Project Manager
- 18. In the client application, Timescale relationships are shown by selecting which value from the Layout Options bar?
  - a) Group and Sort
  - (b) Timescale
  - c) Bar Chart Options
  - d) Bars
- 19. Select two true statements regarding Calendars.
  - a) Global Calendars are available to a subset of projects.
  - b) Only a limited number of calendars can be created
  - c) Project Calendars are available for the current project only.
  - Activity Calendars are managed by individual Resources.
  - Activity type determines whether the activity uses Resource Calendars for scheduling
- 20. Which program must be run to create sales Invoices in the Accounts Receivable system?
  - a) the Invoice Print program (R03B305)



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



(b) the Sales Update program (R42800)

21. What should you do to change the method of allocation for an existing recurring journal entry from amount to percent?

(a) Change the recurring frequency of the allocation journal.

b) Change the method on the remaining number of recurring journals.

c) Delete the recurring journal and add a new one.

- d) Create different versions of the Recurring JE Compute & Print program.
- 22. Which two statements are true regarding the address book audit log feature?

(a) You can set it up to record new records only.

- b) You can set it up to record new records that have been entered and changes to existing records.
- c) You can set it up to record changes to existing records.

d) It is a user preference.

e) You can set it up to record deleted records only.

23. Which field or fields make up the unique key(s) that link the Receipt Header table (F03B13) to the Receipt Detail (F03BI4) table?

(a) G/L Date (DGJ), Receipt Number (CKNU) and Company (CO)

b) Receipt Number (CKNU)

c) Payment ID (PYID)

d) Payment ID (PYID) and Receipt Number (CKNU)

24. Which two are Regional resources in Oracle Cloud Infrastructure?

a) A. Ephemeral public IPs

- (b) Compartments
- c) Compute images
- d) Dynamic groups

e) Block volume backups

25. An Oracle Cloud Infrastructure tenancy administrator is not able to delete a user in the tenancy. What can cause this issue?

① User has multi-factor authentication (MFA) enabled.

b) User is member of an Identity and Access Management (IAM) group.

c) Users can be blocked but not deleted.

d) User needs to be deleted from federation Identity Provider (IdP) before deleting from

**D**:

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Ross
Manikandam, Trichy-628 012.



d) Expenses

a) Leveling priorityb) Mandatory constraint

6. What takes the highest precedence during Resource Leveling?

# Indra Ganesan

## COLLEGE OF ENGINEERING





| Name of the Student: Vignesh. R.                           | Year/Sem: In Latest                     |
|--|---|
| AU Register Number: 811219103002.                          |   |
| Value Added Course on "Project Management                  | in PRIMAVERA"                           |
|  | / 10                                    |
| MCQ QUESTIONS (25X1= 25 Mai                                | rks                                     |
| 1. Identify one project intense industries where Primave   | era has a significant                   |
| resence.   | 7 215                                   |
| (a) Oil and Gas  |   |
| b) Communications  |   |
| c) Health Sciences   |   |
| d) Tax   |   |
| 2. What is the significance of assigning the Responsible   | Manager to an FPS Node                  |
| a) It assigns a generic resource to the EPS                | Ser to del Lie b i todo                 |
| b)   |   |
| It assigns a named resource to the EPS                     | (6)                                     |
| Colf links the EPS to an OBS element                       |   |
| (A)  |   |
| It links the EPS to management reports                     | Jalerichnan, M.E., Ph.D                 |
| 3. Identify the field that must be unique in Primavera.    | Dr. G. Balakrishnan, M.E., Ph.D         |
| a) Project Name  | Collec                                  |
| (b) Project Description (c) Project ID                     | 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 |
| d) Project Manager   | Ividfiikanda"                           |
| 4. Identify a relevant use case for applying a Must Finish |   |
| a) Compare Scheduled Finish to Must Finish By              | detecto a project.                      |
| Finish dates   | dates to negotiate realistic            |
| Apply Must Finish By dates to shorten the dura             | ation of the schedule                   |
| c) Apply Must Finish By dates to build case for re         | educating resources                     |
| d) .Compare Must Finish By date to Actual Finish           | Date to negotiate                       |
| realistic Finish dates                                     | - House to make the second              |
| 5. Identify one example of Enterprise specific data.       |   |
| a) Enterprise Project Structure                            |   |
| (b) Activities   |   |
| c) Baselines   |   |



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- c) Topological sequent
  (d) Resource Calendar
- 7. Cost Variance is calculated as
  - (a) Earned Value Cost Actual Cost
  - b) the Actual Cost of Work Performed
  - c) the Budgeted Cost of Work Scheduled
  - d) Budget at Completion Earned Value Cost
- 8. You are a Portfolio Manager looking for a new portfolio that you manually created for you have clicked the Group by drop-down list in Portfolios. Which option should you select to quickly find your portfolio?
  - a) Global Portfolio
  - b) Global Filtered Portfolio
  - (c) User Portfolio
  - · (d) User Filtered Portfolio
- 9. Where "User Defined Fields" are typically maintained?
  - a) in the Web interface, in the preferences section
  - (b) in the Client interface by the system administrator
    - c) in the Web interface, on the Activities tab
    - d) in the Client interface under Admin Preferences
- 10. An activity has an Original Duration of 10, and a Remaining Duration of 10. The Actual Start is assigned to the activity. Physical % is updated to equal 80%. What is the Remaining Duration for this activity?

(a) 80 (b) 10

(C) 2

## 11. Stands for WBS

- Work breakdown structure
- b) Work breakup structure
- c) World breakdown structure
- d) World breakup structure

## 12. Full form of OBS

- @ Orgazational breakdown structure
- 6) Optional breakdown structure
- c) Official breakdown structure
- d) Orgazational broken system.

## 13. Full form of EPS

- a) Entertainment breakdown structure
- Enterprise breakdown structure
  - c) Enterprise breakdown system
  - d) Enery broken system

Br. C. Ralakrishnan M.E., Ph

Dr. G. Balakrishnan M.E., Ph.D.,



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelbi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



14. How many controlling capability in primavera

|   | O TT I | ALCONA. |
|---|--------|---------|
|   | 3)     | 5       |
| / | (b)    | 3       |
|   | (c)    | 7       |
|   | d)     | 2       |

15. Where are tolerances set in Primavera P6 EPPM?

- a) in Global Preferences
- b) In Performance Thresholds
- In Performance Status tab

d) In Portfolios

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan Coilege of Engineering
IG Valley, Madural Main Road
Manikandam, Trichy-629 012.

16. Select the true statement regarding Global Change.

- a) Global change can modify Global Codes.
- (b) Alobal Change can replace existing project data with new data.
- Global change can be executed by any user.
- d) Global change can modify Global Security Profiles.
- 17. The two global profiles that are hard-coded In the system and cannot be deleted or changed are and
  - a. No Global Privileges
  - b. IT Administrator
  - c. Admin Super User
  - d. System Administrator
  - e. Project Manager
- 18. In the client application, Timescale relationships are shown by selecting which value from the Layout Options bar?
  - a) Group and Sort
  - Timescale
  - c) Bar Chart Options
  - d) Bars
- 19. Select two true statements regarding Calendars.
  - a) Global Calendars are available to a subset of projects.
  - b) Only a limited number of calendars can be created
  - Project Calendars are available for the current project only.
  - d) Activity Calendars are managed by individual Resources.
  - e) Activity type determines whether the activity uses Resource Calendars for scheduling
- 20. Which program must be run to create sales Invoices in the Accounts Receivable system?
  - (a) the Invoice Print program (R03B305)



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandem, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Cheunai NAAC Accredited, 2(F) Status Institution by UGC



b) the Sales Update program (R42800)

21. What should you do to change the method of allocation for an existing recurring journal entry from amount to percent?

(a) Change the recurring frequency of the allocation journal.

b) Change the method on the remaining number of recurring journals.

c) Delete the recurring journal and add a new one.

- d) Create different versions of the Recurring JE Compute & Print program.
- 22. Which two statements are true regarding the address book audit log feature?

You can set it up to record new records only.

- You can set it up to record new records that have been entered and changes to existing records.
  - c) You can set it up to record changes to existing records.

d) It is a user preference.

e) You can set it up to record deleted records only.

23. Which field or fields make up the unique key(s) that link the Receipt Header table (F03B13) to the Receipt Detail (F03BI4) table?

a) G/L Date (DGJ), Receipt Number (CKNU) and Company (CO)

(b) Receipt Number (CKNU)

c) Payment ID (PYID)

(d) Payment ID (PYID) and Receipt Number (CKNU)

24. Which two are Regional resources in Oracle Cloud Infrastructure?

(a) A. Ephemeral public IPs

- (b) Compartments
  - c) Compute images
  - (d) Dynamic groups
  - e) Block volume backups
- 25. An Oracle Cloud Infrastructure tenancy administrator is not able to delete a user in the tenancy. What can cause this issue?

We User has multi-factor authentication (MFA) enabled.

b) User is member of an Identity and Access Management (IAM) group.

c) Users can be blocked but not deleted.

d) User needs to be deleted from federation Identity Provider (IdP) before deleting from

(D).

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Ama University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Odd Semester

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Ethical Hacking"

MCQ QUESTIONS (25X4 = 100 Marks)

### 1. What is Ethical Hacking?

- A) Hacking to steal sensitive information
- B) Hacking to identify vulnerabilities in a system
- C) Hacking to disrupt a system's functionality
- D) Hacking to cause damage to a system

### 2. What is the main goal of ethical hacking?

- A) To cause damage to a system
- B) To gain unauthorized access to a system
- C) To identify and fix security vulnerabilities
- D) To steal sensitive information

### 3. Which of the following is not a common method used in ethical hacking?

- A)Social engineering
- B) Penetration testing
- C) SQL injection
- D) Denial of service attack

### 4. What is a firewall?

- A) A device used to prevent unauthorized access to a network
- B) A device used to monitor network traffic
- C) A device used to encrypt network traffic
- D) A device used to block email spam

Dr. G. Balakrishnan, M.E., Ph.D.,



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



## **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Odd Semester

### 5. What is a honeypot?

- A) A device used to lure attackers into a trap
- B) A type of malware that spreads through a network
- C) A tool used to test network performance
- D) A device used to monitor network traffic

### 6. What is a man-in-the-middle attack?

- A) An attack that intercepts communication between two parties
- B) An attack that infects a system with malware
- C) An attack that exploits a software vulnerability
- D) An attack that floods a network with traffic

### 7. What is a password cracker?

- A) A tool used to guess passwords through trial and error
- B) A tool used to encrypt passwords for storage
- C) A tool used to decrypt passwords for storage
- D) A tool used to block password guessing attempts

### 8. What is a vulnerability scanner?

- A) A tool used to identify weaknesses in a system or network
- B) A tool used to exploit vulnerabilities in a system or network
- C) A tool used to monitor network traffic
- D) A tool used to block email space

#### 9. What is a rootkit?

- A)A type of malware that encrypts files on a system
- B) A type of software used to monitor network traffic
- C) A type of software used to hide malicious activity on a system
- D) A type of software used to perform brute force attacks





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

### **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Odd Semester

### 10. What is a Trojan horse?

- A) A type of malware that spreads through social media
- B) A type of malware that disguises itself as legitimate software
- C) A type of attack that exploits a software vulnerability
- D) A type of attack that floods a network with traffic

#### 11. What is a buffer overflow?

- A) A type of malware that spreads through email attachments
- B) A type of attack that exploits a software vulnerability
- C) A type of attack that floods a network with traffic
- D) A tool used to remove malware from a system

### 12. What is a virtual private network (VPN)?

- A) A device used to encrypt network traffic
- B) A device used to monitor network traffic
- C) A device used to block network traffic
- D) A device used to analyze system logs

### 13. What is an exploit?

- A) A type of malware that spreads through email attachments
- B) A type of attack that takes advantage of a software vulnerability
- C) A tool used to scan a network for vulnerabilities
- D) A type of attack that floods a network with traffic

### 14. What is a payload?

- A) The encrypted data transmitted over a network
- B) The malicious code executed during an attack
- C) The traffic generated by a botnet
- D) The log files generated by a system

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



# COLLEGE OF ENGINEERI







### **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Odd Semester

### 15. What is a botnet?

- A) A network of compromised computers used for malicious purposes
- B) A type of malware that steals sensitive information
- C) A type of malware that encrypts files on a system
- D) A type of attack that floods a network with traffic

### 16. Who is the father of Ethical Hacking?

- A)Ankit Fadia
- B)Gary McKinnon
- C)Kevin Mitnick
- D)Tsutomu Shimomura

### 17. In which year the term hacking was coined?

- A)1950-54
- B)1955-60
- C)1965-67
- D)1970-80

#### 18 .From where the term 'hacker' first came to existence?

- A)MIT
- B)California
- C)Bell's Lab
- D)Stanford University

### 19 .FAT stands for in Ethical Hacking?

- A)Forensic Analysis Tool
- B)Format Allocation Test
- C)File Allocation Transfer
- D)File Allocation Tables

### 20 .Existence of weakness in a system or network is called

- A)Attack
- B)Exploit
- C)Threat
- D) Vulnerability



# Indra Ganesan COLLEGE OF ENGINEERING



NAAC Accredited, 2(F) Status Institution by UGC



### **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Odd Semester

- 21 .What is the attack called "evil twin"?
- A)MAC spoofing
- B)ARP poisoning
- C)Rogue access point
- D)Session hijacking
- 22 .What are the forms of password cracking techniques?
- A)AttackSyllable
- B)AttacksHybrid
- C)AttackBrute Forcing
- D)All of the Above
- 23 . What is the first phase of hacking?
- A)Scanning
- B)Gaining access
- C)Reconnaissance
- D) Maintaining access
- 24 .What is the name of the first hacker's conference?
- A)OSCON
- B)SECCON
- C)DEVCON
- D)DEFCON
- 25 . Which of the following do not comes under Social Engineering?
- A)Phishing
- B)Tailgating
- C)Spamming
- D)Pretexting

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



## COLLEGE OF ENGINEERING





# **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Odd Semester

### Value Added Course

### **Ethical Hacking**

### ANSWER KEY

| 1 | В | 6  | A | 11 | В | 16 | C | 21 | C |
|---|---|----|---|----|---|----|---|----|---|
| 2 | C | 7  | A | 12 | A | 17 | В | 22 | D |
| 3 | D | 8  | A | 13 | В | 18 | A | 23 | Α |
| 4 | A | 9  | C | 14 | В | 19 | D | 24 | D |
| 5 | A | 10 | В | 15 | A | 20 | D | 25 | C |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



### EGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tinuchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnic NAAC Accredited, 2(F) Status Institution by UGC



### Department of Computer Science & Engineering

Academic Year 2021-2022 - Odd Semester

Name of the Student: Mohamed Now Sath. M

Year/Sem: V / D

AU Register Number: 811219104012

Value Added Course on "Ethical Hacking"

MCO OUESTIONS (25X4 = 100 Marks)

1. What is Ethical Hacking?

- A) Hacking to steal sensitive information
- By Hacking to identify vulnerabilities in a system
- C) Hacking to disrupt a system's functionality
- D) Hacking to cause damage to a system
- 2. What is the main goal of ethical hacking?
- A) To cause damage to a system
- B) To gain unauthorized access to a system
- CTTo identify and fix security vulnerabilities
- D) To steal sensitive information
- 3. Which of the following is not a common method used in ethical hacking?
- A)Social engineering
- B) Penetration testing
- -CYSQL injection
  - D) Denial of service attack
  - 4. What is a firewall?
  - A) A device used to prevent unauthorized access to a network
  - B) A device used to monitor network traffic
  - C) A device used to encrypt network traffic
  - D) A device used to block email spam-

Dr. G. Balakrishnan, M.E., Ph.D.,



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



### **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Odd Semester

### 5. What is a honeypot?

- A) A device used to lure attackers into a trap
- B) A type of malware that spreads through a network
- C) A tool used to test network performance
- D) A device used to monitor network traffic

### 6. What is a man-in-the-middle attack?

- A) An attack that intercepts communication between two parties
- B) An attack that infects a system with malware
- C) An attack that exploits a software vulnerability
- D) An attack that floods a network with traffic

### 7. What is a password cracker?

- A) A tool used to guess passwords through trial and error
- B) A tool used to encrypt passwords for storage
- C) A tool used to decrypt passwords for storage
- D) A tool used to block password guessing attempts

### 8. What is a vulnerability scanner?

- A) A tool used to identify weaknesses in a system or network
- B) A tool used to exploit vulnerabilities in a system or network
- C) A tool used to monitor network traffic
- D) A tool used to block email space

#### 9. What is a rootkit?

- A)A type of malware that encrypts files on a system
- B) A type of software used to monitor network traffic
- C) A type of software used to hide malicious activity on a system
- D) A type of software used to perform brute force attacks

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road andam, Trichy-620 012



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



## Department of Computer Science & Engineering

### Academic Year 2021-2022 - Odd Semester

### 10. What is a Trojan horse?

- A) A type of malware that spreads through social media
- B) A type of malware that disguises itself as legitimate software
- C) A type of attack that exploits a software vulnerability
- D) A type of attack that floods a network with traffic

#### 11. What is a buffer overflow?

- A) A type of malware that spreads through email attachments
- B) A type of attack that exploits a software vulnerability
- C) A type of attack that floods a network with traffic
- D) A tool used to remove malware from a system

### 12. What is a virtual private network (VPN)?

- A) A device used to encrypt network traffic
- B) A device used to monitor network traffic
- C) A device used to block network traffic
- D) A device used to analyze system logs

### 13. What is an exploit?

- A) A type of malware that spreads through email attachments
- BY A type of attack that takes advantage of a software vulnerability
- C) A tool used to scan a network for vulnerabilities
- D) A type of attack that floods a network with traffic

### 14. What is a payload?

- A) The encrypted data transmitted over a network
- B) The malicious code executed during an attack
- C) The traffic generated by a botnet
- D) The log files generated by a system

(D.:-

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



### Department of Computer Science & Engineering

### Academic Year 2021-2022 - Odd Semester

- 21 . What is the attack called "evil twin"?
- A)MAC spoofing
- B)ARP poisoning
- SiRbgue access point
- D)Session hijacking
- 22 . What are the forms of password cracking techniques?
- A)AttackSyllable
- B)AttacksHybrid
- C)AuackBrute Forcing
- DAN of the Above
- 23 . What is the first phase of hacking?
- A)Scanning
- B)Gaining access
- (C)Reconnaissance
- D)Maintaining access
- 24 . What is the name of the first hacker's conference?
- A)OSCON
- B)SECCON
- CDEVCON
- DIDEFCON
- 25 'Which of the following do not comes under Social Engineering?
- A)Phishing
- B) Tailgating
- Desparoming
- D) Pretexting

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 013



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellu & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



## Department of Computer Science & Engineering

Academic Year 2021-2022 - Odd Semester

Name of the Student: Vinitted Devi. P

Year/Sem: I - M.E

AU Register Number: 811221405002

Value Added Course on "Ethical Hacking"

MCO QUESTIONS (25X4 = 100 Marks)



### 1. What is Ethical Hacking?

- A) Hacking to steal sensitive information
- B) Hacking to identify vulnerabilities in a system
- Hacking to disrupt a system's functionality
- D) Hacking to cause damage to a system
- 2. What is the main goal of ethical hacking?
- A) To cause damage to a system
- B) To gain unauthorized access to a system
- To identify and fix security vulnerabilities
- b) To steal sensitive information
- 3. Which of the following is not a common method used in ethical hacking?
- A)Social engineering
- B) Penetration testing
- C) SQL injection
- Denial of service attack

#### 4. What is a firewall?

- And device used to prevent unauthorized access to a network
- B) A device used to monitor network traffic
- C) A device used to encrypt network traffic
- D) A device used to block email spam

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 Day



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelht & Affiliated to Anna University, Chemna NAAC Accredited, 2(F) Status Institution by UGC



# **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Odd Semester

### 5. What is a honeypot?

- A) A device used to lure attackers into a trap
- B) A type of malware that spreads through a network
- () A tool used to test network performance
- D) A device used to monitor network traffic

### 6. What is a man-in-the-middle attack?

- An attack that intercepts communication between two parties
- B) An attack that infects a system with malware
- (2) An attack that exploits a software vulnerability
- D) An attack that floods a network with traffic

### 7. What is a password cracker?

- A lool used to guess passwords through trial and error
- B) A tool used to encrypt passwords for storage
- () A tool used to decrypt passwords for storage
- D) A tool used to block password guessing attempts

### 8. What is a vulnerability scanner?

- A A tool used to identify weaknesses in a system or network
- B. A tool used to exploit vulnerabilities in a system or network
- C) A tool used to monitor network traffic
- D) A tool used to block email space

### 9. What is a rootkit?

- A) A type of malware that encrypts files on a system
- B) A type of software used to monitor network traffic
- A type of software used to hide malicious activity on a system
- D) A type of software used to perform brute force attacks

(D.:

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhl & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



# Department of Computer Science & Engineering

### Academic Year 2021-2022 - Odd Semester

### 10. What is a Trojan horse?

- A) Atype of malware that spreads through social media
- B) A/type of malware that disguises itself as legitimate software
- C) A type of attack that exploits a software vulnerability
- D) A type of attack that floods a network with traffic

### 11. What is a buffer overflow?

- A) A type of malware that spreads through email attachments
- B) A type of attack that exploits a software vulnerability
- Cy A type of attack that floods a network with traffic
- D) A tool used to remove malware from a system

## 12. What is a virtual private network (VPN)?

- A) A device used to encrypt network traffic
- B) A device used to monitor network traffic
- device used to block network traffic
  - D) A device used to analyze system logs

### 13. What is an exploit?

- A) A type of malware that spreads through email attachments
- B/A type of attack that takes advantage of a software vulnerability
- A tool used to scan a network for vulnerabilities
- D) A type of attack that floods a network with traffic

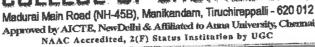
### 14. What is a payload?

- A) The encrypted data transmitted over a network
- By the malicious code executed during an attack
- C) The traffic generated by a botnet
- D) The log files generated by a system

Dr. G. Balakrishnan, M.E., Ph.D., Principal



## COLLEGE OF ENGINEERING





# Department of Computer Science & Engineering

# Academic Year 2021-2022 - Odd Semester

### 15. What is a botnet?

- A) A network of compromised computers used for malicious purposes
- B) A type of malware that steals sensitive information
- C) A type of malware that encrypts files on a system
- D) A type of attack that floods a network with traffic

# 16 . Who is the father of Ethical Hacking?

- A)Ankit Fadia
- B)Gary McKinnon
- Kevin Mitnick
- Dil sutomu Shimomura
- 17 .In which year the term hacking was coined?
- A)1950-54
- B11955-60
- C11965-67
- D)1970-80
- 18 .From where the term 'hacker' first came to existence?

### AMMIT

- B)California
- C.Bell's Lab
- D)Stanford University

# 19 .FAT stands for in Ethical Hacking?

- A)Forensic Analysis Tool
- B)Format Allocation Test
- C)File Allocation Transfer
- Diffile Allocation Tables
- 20 .Existence of weakness in a system or network is called \_\_\_\_\_

A)Attack

- B)Exploit
- C) Hyeat
- Unerability

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



### COLLEGE OF ENGINEERI



# Department of Computer Science & Engineering

## Academic Year 2021-2022 - Odd Semester

# 21 . What is the attack called "evil twin"?

- A)MAC spoofing
- B)ARP poisoning
- C)Rogue access point
- D)Session hijacking

# 22 . What are the forms of password cracking techniques?

- A)AttackSyllable
- B)AttacksHybrid
- C)AttackBrute Forcing
- DiAll of the Above
- 23 . What is the first phase of hacking?
- A) Scanning
- B) Gaining access
- C)Reconnaissance
- D)Maintaining access
- 24 . What is the name of the first hacker's conference?
- A)OSCON
- B)SECCON
- C)DEVCON
- MIDEFCON
- 25. Which of the following do not comes under Social Engineering?
- A)Phishing
- B) Tailgating
- **CISpamming**
- D)Pretexting

IG Valley, Madurai Main Manikandam Take



# COLLEGE OF ENGINEERIN



Medural Main Road (NH-45B), Manikandam, Tituchireppelli - 620 012
Approved by AICTE, NewDellii & Allifated to Anna University, Chemnel NAAC Accredited, 2(F) States Smalleston by UGC

Name of the Student:

Year/Sem:

AU Register Number:

### Value Added Course

| "]   | ELECTROCHEM                             | ICAL ENERGY                         | Y STORAGE"  |
|--|---|-------------------------------------|---|
| MUI  | LTIPLE CHOICE                           | QUESTIONS (                         | 25X1 = 25 Marks   |
| 1. The current flow                        | through electrolyt                      | e is due to the m                   | ovement of  |
| (A) Ions                                   | (B) holes                               | (C) electrons                       | (D) none of the above   |
| 2. If a lead-acid cell                     | is discharged belo                      | w 1.8 V the follo                   | wing will happen.   |
| (A) Capacity of c<br>(B) Sulphation of     |   |                                     | ternal resistance will increase                                     |
| 3. Each cell has a ver                     | nt cap                                  |                                     |   |
|  | out when the cell is the cell if needed | s on charge                         | (C) to check the level of electrolyte (D) to do all above functions |
| 4. Following will occu                     | ur if level of electro                  | olyte falls below                   | plates  |
| (A) Capacity of th<br>(B) life of the cell |   | (C) open plates (D) all above       | are converted to lead sulphate                                      |
| 5. Which of the follow                     | wing battery is use                     | d for air-craft?                    |   |
| (A) Lead-acid batte<br>(B) Nickel-iron bat |   | y cell battery<br>ver oxide battery |   |
| 6. Cells are connected                     | I in parallel to                        |                                     |   |

- (A) Increase the efficiency
- (C) increase the voltage output
- (B) increase the current capacity
- (D) increase the internal resistance

7. In a battery cover is placed over the element and sealed to the top of the battery container. This is done

- (A) to reduce evaporation of water from electrolyte
- (B) to exclude dirt and foreign matter from the electrolyte
- (C) to discharge both of the above functions
- (D) to discharge none of the above functions

Dr. G. Balakrishnan, M.E., Ph.D.,







|     | 8. Level of electrol   | yte in a cell s                  | hould be       | _ the level of pla                          | tes       |  |
|-----|--|----------------------------------|----------------|---|-----------|--|
|     | (A) Below (  | B) equal to                      | (C) above      | (D) none of th                              | e above   |  |
|     | 9. Under normal c  | harging rate,                    | the charging   | current should be                           | e         |  |
|     | (A) 10% of capa  | acity (B) 209                    | % of capacity  | (C) 30% of cap                              | pacity    | (D) 40% of capacity  |
| :   | 10. Satellite power  | requirement                      | is provided (  | hrough                                      |           |  |
|     | (A) Solar cells  | (B) dry cells                    | (C) nickel-c   | admium cells                                | (D) lea   | d-acid batteries   |
| J   | 1. A constant-volt   | age generato                     | r has          |   |           |  |
|     | (A) Minimum ef<br>(B) minimum cu   |                                  |                | ow internal resista<br>igh internal resista |           |  |
| 1   | 2. 48 ampere-hou   | r capacity wo                    | uld deliver a  | current of                                  |           |  |
|     | (A) 48 amperes t<br>(B) 24 amperes f   |                                  |                | amperes for 6 hour<br>amperes for 8 hour    |           |  |
| 13  | 3. Mercury cell ha   | ıs which of th                   | e following cl | naracteristics?                             |           |  |
|     | <ul><li>(A) Flat discharg</li><li>(B) High power t</li><li>(C) Comparativel</li><li>Humidity</li><li>(D) All of the abor</li></ul> | o weight ratio<br>y longer shelf |                | verse conditions of                         | fhigh ter | nperature and  |
| 14  | . Which of the fol   | lowing factor                    | s adversely a  | ffects the capacity                         | y of the  | lead acid battery?   |
|     | (A) Temperature (B) Specific gravi   |                                  |                | (C) Rate of disch<br>(D) All of the abo     | _         | (D:  |
| 15. | . Internal resistan  | ce of a cell is r                | educed by      |   | Dr (      | G. Ralabrick   |
|     | (A) Using vent plu<br>(B) increasing the   | plate area                       |                | ng discharge                                | Indra     | G. Balakrishnan, M.E., Ph.D<br>Principal<br>Ganesan College of Engineering |
| 11  | (C) putting plates   |                                  |                | (D) all above met                           | hade 1    | G Valley, Madurai Main Road<br>Manikandam, Trichy-620 012                  |
| 16. | Trickle charging   | of a storage b                   | attery helps t | 0   |           | /  |
|     | (A) Maintain prope   | er electrolyte le                | evel           | (C) prevent sulpha                          | ition     |  |





Medural Main Road (NH-45B), Manikandam, Thuchirappaili - 620 012
Approved by AlCTE, NewDelhi & Affiliated to Arma University, Channal NAAC Accredited, 2(F) Status Institution by UGC

(B) increase its reserve capacity

(D) keep it fresh and fully charged

| 17. It is noticed that of   | lurum charging  |  |   |
|---|---|--|---|
| (A) There is a rise i<br>(C) specific gravity   | n voltage<br>of H2SO4 is increased  |  | gy is absorbed by the cell-<br>of the above                   |
| 18. Which of the follo  | wing cell has a. reversib   | le chemical reactio                      | on?   |
| (A) Lead-acid   | (B) Mercury oxide   | (C) Carbon-zinc                          | (D) Silver-oxide  |
| 19. Batteries are charge  | ged by  |  |   |
| (A) Rectifiers (B) engine generator   | (C) motor generates (D) any one of  | erator sets<br>f the above method        | s   |
| <ul><li>20. Cell short circuit re (A) low specific gra (C) reduced gassing</li><li>21. A battery is an arra</li></ul> | vity electrolyte (B) abo  |  | Dr. G. Balakrishnan, M.E., Ph.D.                              |
| A) True   | B) False  |  | Principal Indra Ganesan College of Engineering                |
| 22. Which of the follow   | ing is not a requirement  | for a useful batter                      | IG Valley, Madurai Main Responses Manikandam, Trichy-620 012. |
| A) It should be light a C) It should ideally ha D) It should supply A   | and compact<br>ave a constant voltage threal<br>lternating Current(AC)            | B) It should have a oughout its lifespan | reasonable life span  |
| 23. Which of the following  | ing statements is true re   | garding a primary                        | cell?   |
|   | tions can be reversed<br>imary cell is a mercury co<br>imary cell is a nickel-cad | ell                                      | e recharged   |

### 24. Which of the following is used as an anode in a dry cell?

A) Zinc B) Graphite C) Mercury (II) oxide D) Nickel

## 25. Why do leak proof dry cells have an iron or steel sheet covering the zinc cylinder?

- A) It increases the potential difference between the anode and cathode
  - B) It acts as a barrier around the zinc cylinder which can develop holes during use
  - C) It makes it waterproof
  - D) It prevents the leakage of current



# Indra Ganesan GOLLEGE OF ENGINEERING Medural Main Road (NH-45R) Marketon Trusters III



Medurei Mein Road (NH-45B), Menikandem, Tinuchirappaili - 620 012
Apparoved by AICTE, NewDelth & Affiliated to Arms University Classical
NAAC Accredited, 2(F) Status Institution by EGC

# Value Added Course

## "ELECTROCHEMICAL ENERGY STORAGE"

### **ANSWER KEY**

| 1 | A | 6  | В | 11 | С | 16 | D | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | D | 7  | C | 12 | D | 17 | D | 22 | D |
| 3 | D | 8  | С | 13 | D | 18 | A | 23 | С |
| 4 | D | 9  | A | 14 | D | 19 | D | 24 | С |
| 5 | В | 10 | A | 15 | D | 20 | D | 25 | В |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. VAC Coordinator





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AlCTE, NewDelhi & Affiliated to Anna University, Chemisis NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student: AARTH) . S

Year/Sem:

AU Register Number: 81122010530)

| <u>Value</u>  | Added Cours                            | se   |
|---|--|--|
| "ELECTROCHEM  | IICAL ENERGY S                         | TORAGE"  |
| MULTIPLE CHOICE   | QUESTIONS (25X                         | X1 = 25  Marks)  |
| 1. The current flow through electroly   | te is due to the move                  | ement of   |
| (B) holes   | (C) electrons                          | (D) none of the above  |
| 2.If a lead-acid cell is discharged belo  | ow 1.8 V the following                 | ng will happen.  |
| (A) Capacity of cell will reduce<br>(B) Sulphation of plates will occur                       | (C) Interr                             | nal resistance will increase                                     |
| 3. Each cell has a vent cap   |  |  |
| (A) to allow gases out when the cell (B) to add water to the cell if needed                   |  | to check the level of electrolyte do all above functions         |
| 4. Following will occur if level of electrons   | rolyte falls below pla                 | ites   |
| <ul><li>(A) Capacity of the cell is reduced</li><li>(B) life of the cell is reduced</li></ul> | (C) open-plates are                    | e converted to lead sulphate                                     |
| 5. Which of the following battery is us   | ed for air-craft?                      | (D.:   |
|   | ry cell battery<br>ilver oxide battery | Dr. G. Balakrishnan, M.E., Pl                                    |
|   |  | <sup>©</sup> Principal   |
| 6. Cells are connected in parallel to   |  | Indra Ganesan College of Enginee<br>IG Valley, Madurai Main Road |
| (A) Increase the efficiency   | (C) increase the vo                    | ltage output Manikandam, Trichy-620 012.                         |

h.D..

ering

increase the current capacity

(D) increase the internal resistance

7. In a battery cover is placed over the element and sealed to the top of the battery container. This is done

(A) to reduce evaporation of water from electrolyte

(B) to exclude dirt and foreign matter from the electrolyte

(C) o discharge both of the above functions

(D) to discharge none of the above functions



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

roved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal



NAAC Accredited, 2(F) Status Institution by UGC 8. Level of electrolyte in a cell should be the level of plates (C) above (D) none of the above (A) Below (B) equal to 9. Under normal charging rate, the charging current should be (A) 10% of capacity (B) 20% of capacity (C) 30% of capacity (D) 40% of capacity 10. Satellite power requirement is provided through (A) Solar cells (B) dry cells (C) nickel-cadmium cells (D) lead-acid batteries 11. A constant-voltage generator has (A) Minimum efficiency ow internal resistance (D) high internal resistance (B) minimum current capacity 12. 48 ampere-hour capacity would deliver a current of (A) 48 amperes for 1 hour C) **\$** amperes for 6 hours (B) 24 amperes for 2 hours D) 6 amperes for 8 hours Dr. G. Balakrishnan, M.E., Ph.D., 13. Mercury cell has which of the following characteristics? Principal Indra Ganesan College of Englanding IG Valley, Madurai Main দিভৱৰ (A) Flat discharge current-voltage curve Manikandam, Trichy-620 012. (B) High power to weight ratio (C) Comparatively longer shelf life under adverse conditions of high temperature and Humidity (D) All of the above 14. Which of the following factors adversely affects the capacity of the lead acid battery? (A) Temperature of surroundings (C) Rate of discharge (B) Specific gravity of electrolyte (D) All of the above

### 15. Internal resistance of a cell is reduced by

- (A) Using vent plug to permit gas formed during discharge
- (B) increasing the plate area
- (C) putting plates very close together

(D) all above methods

#### 16. Trickle charging of a storage battery helps to

- (A) Maintain proper electrolyte level
- (B) increase its reserve capacity

(C) prevent sulphation

(D) keep it fresh and fully charged





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelbi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by IIGC

| And Activation, 2(r) states institution by UGC   | 475. X25.   |
|--|---|
| 17. It is noticed that durum charging  |   |
| (A) There is a rise in voltage (B) energy is (C) specific gravity of H2SO4 is increased  | absorbed by the cell above                                  |
| 18. Which of the following cell has a. reversible chemical reaction?   |   |
| (A) Lead-acid (B) Mercury oxide (C) Carbon-zinc  | (D) Silver-oxide  |
| 19. Batteries are charged by   |   |
| (A) Rectifiers (B) engine generator sets (C) motor generator sets (D) any one of the above methods   |   |
| 20. Cell short circuit results in  (A) low specific gravity electrolyte (C) reduced gassing on charge  (B) abnormal high temperature   |   |
| 21. A battery is an arrangement of electrolytic cells.   | r. G. Balakrishnan, M.E., Ph.:                              |
|  | dra Ganesan College of Englisher                            |
| 22. Which of the following is not a requirement for a useful battery?  | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| A) It should be light and compact  B) It should have a reast C) It should ideally have a constant voltage throughout its lifespan  D) It should supply Alternating Current(AC) | sonable life span   |
| 23. Which of the following statements is true regarding a primary cell   | ?   |
| A) The electrode reactions can be reversed  B) It can be recommended a primary cell is a mercury cell  An example of a primary cell is a nickel-cadmium storage cell           | charged   |
| 24. Which of the following is used as an anode in a dry cell?  |   |
| A) Zinc B) Graphite C) Mercury (II) oxide D) Nickel  |   |

25. Why do leak proof dry cells have an iron or steel sheet covering the zinc cylinder?

A) It increases the potential difference between the anode and cathode

B) It acts as a barrier around the zinc cylinder which can develop holes during use

C) It makes it waterproof

D) It prevents the leakage of current



Madural Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Affiliated to Anna University, Chemisi NAAC Accordited, 2(6) Status Institution by UGC



Name of the Student: N BARATH

Year/Sem: IV /VII

AU Register Number:

811219105002

### Value Added Course

"ELECTROCHEMICAL ENERGY STORAGE"

### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

| 1. The current flow   | through electroly  | te is due to the move  | ment of               |
|-----------------------|--------------------|------------------------|-----------------------|
| (A) lons              | (B) holes          | (C) electrons          | (D) none of the above |
| 2.If a lead-acid cell | is discharged belo | ow 1.8 V the following | g will happen.        |

(A) Capacity of cell will reduce (C) Internal resistance will increase (B) Sulphation of plates will occur All above will occur

3. Each cell has a vent cap

6. Cells are connected in parallel to

(A) to allow gases out when the cell is on charge (C) to check the level of electrolyte (B) to add water to the cell if needed (D)) to do all above functions

4. Following will occur if level of electrolyte falls below plates

(A) Capacity of the cell is reduced (C) open plates are converted to lead sulphate (B) life of the cell is reduced D) all above

5. Which of the following battery is used for air-craft?

A) ead-acid battery (C) Dry cell battery

B) Nickel-iron battery (D) Silver oxide battery Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

A) Increase the efficiency (C) increase the voltage output ncrease the current capacity (D) increase the internal resistance

7. In a battery cover is placed over the element and sealed to the top of the battery container. This is done

(A) to reduce evaporation of water from electrolyte

(B) to exclude dirt and foreign matter from the electrolyte

(C) discharge both of the above functions to discharge none of the above functions



# COLLEGE OF ENGINEERING



Medurai Main Road (NH-45B), Manikandam, Truchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemesi NAAC Accredited, 2(F) Status Institution by UGC

8. Level of electrolyte in a cell should be \_\_\_\_\_ the level of plates

| (A) Below (B) equal to (C) above (D) none of the above  |
|---|
| 9. Under normal charging rate, the charging current should be   |
| (A) 10% of capacity (B) 20% of capacity (C) 30% of capacity (D) 40% of capacity   |
| 10. Satellite power requirement is provided through   |
| (A) folar cells (B) dry cells (C) nickel-cadmium cells (D) lead-acid batteries  |
| 11. A constant-voltage generator has  |
| (A) Minimum efficiency (B) minimum current capacity (D) high internal resistance  |
| 12. 48 ampere-hour capacity would deliver a current of  |
| (A) 48 amperes for 1 hour (C) 8 amperes for 6 hours   |
| (B) 24 amperes for 2 hours amperes for 8 hours  |
| 13. Mercury cell has which of the following characteristics?  |
| (A) Flat discharge current-voltage curve  (B) High power to weight ratio  (C) Comparatively longer shelf life under adverse conditions of high temperature and Humidity  (D) All of the above                                   |
| 14. Which of the following factors adversely affects the capacity of the lead acid battery?   |
| (A) Temperature of surroundings (B) Specific gravity of electrolyte (C) Rate of discharge (D) All of the above  |
| 15. Internal resistance of a cell is reduced by  Dr. G. Balakrishnan, M.E., Ph.D.   |
| (A) Using vent plug to permit gas formed during discharge  (B) increasing the plate area  (C) putting plates very close together  Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 16. Trickle charging of a storage battery helps to  |
| (A) Maintain proper electrolyte level (B) increase its reserve capacity (D) keep it fresh and fully charged   |



# Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012



| Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status inveltation by UCC   |
|---|
| 17. It is noticed that durum charging   |
| (A) There is a rise in voltage (C) specific gravity of H2SO4 is increased  (B) energy is absorbed by the cell   |
| 18. Which of the following cell has a. reversible chemical reaction?  |
| ead-acid (B) Mercury oxide (C) Carbon-zinc (D) Silver-oxide   |
| 19. Batteries are charged by  |
| (A) Rectifiers (B) engine generator sets (D) any one of the above methods   |
| 20. Cell short circuit results in  (A) low specific gravity electrolyte (B) abnormal high temperature (C) reduced gassing on charge (D) all above  21. A battery is an arrangement of electrolytic cells. |
| A) True  Princ  Indra Ganesan Coleman & Engineering   |
| 22. Which of the following is not a requirement for a useful battery?  IG Valley, Madura, pain Road Manikandam, Trichy-620 012.   |
| A) It should be light and compact  C) It should ideally have a constant voltage throughout its lifespan  D) It should supply Alternating Current(AC)  |
| 23. Which of the following statements is true regarding a primary cell?   |
| A) The electrode reactions can be reversed  B) It can be recharged  n example of a primary cell is a mercury cell  D) An example of a primary cell is a nickel-cadmium storage cell                       |
| 24. Which of the following is used as an anode in a dry cell?   |

25. Why do leak proof dry cells have an iron or steel sheet covering the zinc cylinder?

Mercury (II) oxide D) Nickel

A) It increases the potential difference between the anode and cathode

By acts as a barrier around the zinc cylinder which can develop holes during use

C) It makes it waterproof

A) Zinc

D) It prevents the leakage of current

B) Graphite



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemus NAAC Accredited, 2(F) States Institution by UGC



| Name | of the | Student: |
|------|--------|----------|

**AU Register Number:** 

Naveen. R Year/Sem: 811220105024

# Value Added Course

"ELECTROCHEMICAL ENERGY STORAGE"

### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

| 1. The current flow through electrolyte is due to the movement of | 1. | The | current | flow | through | electrolyte | is | due to | the | movement | of |
|---|----|-----|---------|------|---------|-------------|----|--------|-----|----------|----|
|---|----|-----|---------|------|---------|-------------|----|--------|-----|----------|----|

| A)Ions | 7 |
|--------|---|
| /      |   |

(B) holes

(C) electrons

(D) none of the above

### 2. If a lead-acid cell is discharged below 1.8 V the following will happen.

(A) Capacity of cell will reduce

(B) Sulphation of plates will occur

-(C) Internal resistance will increase

(D) All above will occur

### 3. Each cell has a vent cap

(A) to allow gases out when the cell is on charge

(B) to add water to the cell if needed

to check the level of electrolyte

(D) to do all above functions

### 4. Following will occur if level of electrolyte falls below plates

(A) Capacity of the cell is reduced

(C) open plates are converted to lead sulphate

(B) life of the cell is reduced

(D) all above

### 5. Which of the following battery is used for air-craft?

(A) Lead-acid battery

(C) Dry cell battery

(B) Nickel-iron battery

(D) Silver oxide battery

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

6. Cells are connected in parallel to

(A) Increase the efficiency (B) increase the current capacity (C) increase the voltage outpuManikandam, Trichy-620 012.

(D) increase the internal resistance

### 7. In a battery cover is placed over the element and sealed to the top of the battery container. This is done

(A) to reduce evaporation of water from electrolyte

(B) to exclude dirt and foreign matter from the electrolyte

(C) to discharge both of the above functions

(D) to discharge none of the above functions





Madurai Main Road (NH-45B), Manikandem, Tiruchirappalli - 620 012 Approved by AICTE, NewDelfri & Affiliated to Arms University, Chernal NAAC Accredited, 2(F) States Institution by UGC

| ē | 8. Level of electrol  | lyte in a cell sh | ould be         | the level of plat                         | es            |  |           |
|---|---|-------------------|-----------------|---|---------------|--|-----------|
|   | (A) Below (   | (B) equal to      | above           | (D) none of the                           | e above       |  |           |
|   | 9. Under normal c   | harging rate, t   | he charging c   | urrent should be                          |               |  |           |
|   | (A) 10% of cap  | acity (B) 20%     | 6 of capacity   | (C) 30% of cap                            | pacity (I     | 0) 40% of capacity   |           |
|   | 10. Satellite power   | r requirement     | is provided th  | rough                                     |               |  |           |
|   | A) Solar cells  | (B) dry cells     | (C) nickel-ca   | dmium cells                               | (D) lead-a    | cid batteries  |           |
|   | 11. A constant-vol  | ltage generator   | r has           |   |               |  |           |
|   | (A) Minimum e<br>(B) minimum cu   | -                 |                 | w internal resista<br>gh internal resista |               |  |           |
|   | 12. 48 ampere-hou   | ır capacity wo    | uld deliver a c | urrent of                                 |               |  |           |
|   | (A) 48 amperes<br>(B) 24 amperes  |                   | ` _ /           | imperes for 6 hou<br>amperes for 8 hou    |               | 0  |           |
|   | 13. Mercury cell l  | has which of th   | e following ch  | aracteristics?                            | Dr. G. B      | alakrishnan, м.в   | ., Ph.D., |
|   | (A) Flat dischar<br>(B) High power<br>Comparativ<br>Humidity<br>(D) All of the ab       | to weight ratio   | ,               | erse conditions o                         | IG Va         | Principal<br>nesan College of Engi<br>lley, Madurai Main Ro<br>kandam, aTrichy-620 o | oad       |
|   | 14. Which of the f  | following factor  | rs adversely a  | ffects the capacit                        | ty of the lea | nd acid battery?   |           |
|   | (A) Temperatur<br>(B) Specific gra  |                   |                 | (C) Rate of disc                          | _             |  |           |
|   | 15. Internal resista  | ince of a cell is | reduced by      |   |               |  |           |
|   | <ul><li>(A) Using vent I</li><li>(B) increasing the</li><li>(C) putting plate</li></ul> | ne plate area     |                 | ng discharge  all above me                | ethods        |  |           |
| 1 | 16. Trickle chargin   | ng of a storage   | battery helps   | to  |               |  |           |
|   |   |                   |                 |   |               |  |           |

(C) prevent sulphation

(D) keep it fresh and fully charged

Maintain proper electrolyte level

(B) increase its reserve capacity





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellii & Affiliated to Anna University, Chemni

|   | NAAC Accredited, Z(F) Stat                                      | tes Institution by UGC                         | 162 X2  |
|---|---|--|---|
| 17. It is noticed that d  | urum charging   |  |   |
| (A) There is a rise in (C) specific gravity                       | n voltage<br>of H2SO4 is increased                              | (B) energy is a Dall of the                    | absorbed by the cell above                                  |
| 18. Which of the follow   | wing cell has a. reversib                                       | le chemical reaction?                          |   |
| A) Lead-acid  | (B) Mercury oxide   | (C) Carbon-zinc                                | (D) Silver-oxide  |
| 19. Batteries are charg   | ged by  |  |   |
| <ul><li>(A) Rectifiers</li><li>(B) engine generator</li></ul>     |   | erator sets<br>of the above methods            |   |
| 20. Cell short circuit r (A) low specific gra (C) reduced gassing | vity electrolyte (B) ab   | normal high temperature<br>l above             | D:-   |
| 21. A battery is an arr   | angement of electrolytic  | c cells.                                       | r. G. Balakrishnan, M.E., Ph                                |
| A) True   | (B) False   |  | Principal<br>dra Ganesan College of Engineer                |
| 22. Which of the follow   | ving is not a requiremen  | nt for a useful battery?                       | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
|   | and compact have a constant voltage the Alternating Current(AC) | B) It should have a reastroughout its lifespan | sonable life span   |
| 23. Which of the follow   | ving statements is true r                                       | egarding a primary cell                        | ?   |
| <u> </u>  | ctions can be reversed<br>primary cell is a mercury             | B) It can be recell                            | charged   |

| A) The electrode reactions can be reversed           | B) It can be recharged |
|--|------------------------|
| An example of a primary cell is a mercury cell       |                        |
| (D) An example of a primary cell is a nickel-cadmiun | n storage cell         |

24. Which of the following is used as an anode in a dry cell?

C) Mercury (II) oxide Nickel A) Zinc B) Graphite

25. Why do leak proof dry cells have an iron or steel sheet covering the zinc cylinder?

- A) Wincreases the potential difference between the anode and cathode (b) t acts as a barrier around the zinc cylinder which can develop holes during use
- C) It makes it waterproof
- D) It prevents the leakage of current



Andural Main Road (NH-45B), Manikandam, Tiru pproved by AICTE, NewDelhi & Affiliated to Anna ccredited by NAAC

### Value Added Course "Lab View"

Name of the Student:

AU Register Number:

Year/Sem:

# MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- 1. For implementing state diagrams that allow future application scalability, the best choice for a base structure is?
  - a. Sequence structure

b. Case structure

c. Formula node

d. Object-Oriented structure

2. For implementing state diagrams that allow future application scalability, the best choice for a base structure is?

b. Formula node

b. Case structure

d. Object-Oriented structure

3. Clicking on the button allows you to bypass a node in the Block Diagram without single- stepping through a.Step Into b. Step Over c. Step Out

d. Step Through

- 4. Which of the following apply to Property Nodes? (More than one answer may apply.)
  - a. Property Nodes allow attributes of front panel objects to be pro grammatically manipulated.
  - b. Property Nodes can be used to update the values contained in a front panel object.
  - c. More than one Property Node can be used for a single front panel object.
  - d. Property Nodes can be used to pro grammatically generate a Value Change event.
- 5. You have a front panel control on a top-level VI that you must control from within a subVI. What must you a. The control's properties

b. The control's methods

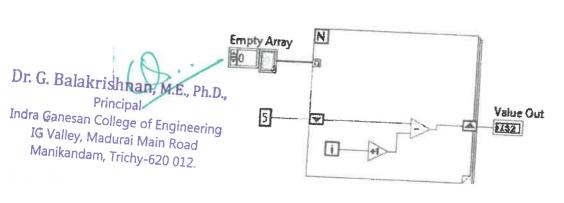
c. The control's reference

d. The control's data type

6. You set a Breakpoint in the code contained within the False case of a Case structure. Will the VI execution pause if the code in True case of the Case structure is being executed?

b. No

7. What value does the Value Out indicator display after the VI executes?



1

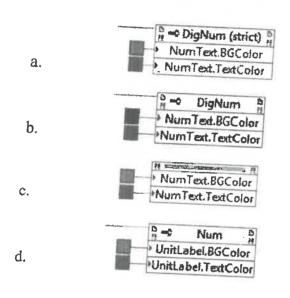


Madural Main Road (NH-45B), Manikandam, Tiruchirapalli-Approved by AICTE, NewDelhi & Affiliated to Anna University, NAAC with

a. 0 c.5

b. 4 d.

8.. Which Property Node changes the text color attributes of any digital numeric control from a subVI?



- 9. Which chart update mode should be used to show running data continuously scrolling from a. Strip Chart
  - b. Scope Chart
- c. Sweep Chart
- d. Step Chart
- 10. Which of the following does not conform to the Dataflow programming paradigm? b. Tunnels c. SubVIs

d.Local variables

11. If possible, a Sequence structure should be replaced with a(n):

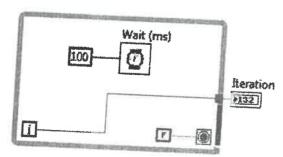
a.Event structure

b.For loop

c.State machine

d. While loop

12. Which of the following statements is TRUE about the following code segment?



Dr. G. Balakrishnan, M.E., Ph.D.,

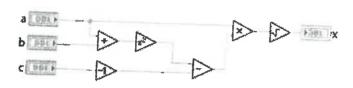
Principal



Approved by AICTE, NewDelhi & Affiliated to Anna credited by NAAC

- The loop will execute once and the indicator Iteration will have a value of one
- The loop will execute once and the indicator Iteration will have a value of zero b.
- The loop will execute infinitely and the program will have to be aborted C. d.
- The loop will not execute and the indicator Iteration will have a value of zero

# 13.. Which equation is equivalent to the code?



$$x = \sqrt{a \times ((a+b)^2 - (c-1))}$$

a.

$$x = \sqrt{a \times ((c-1) - (a+b)^2)}$$

$$x = \sqrt{a \times ((a+b^2) - (c-1))}$$

$$x = \sqrt{a^2 \times ((a+b)^2 - (c-1))}$$

- 14..A VI has Automatic Error Handling enabled. It calls a SubVI that has Automatic Error Handling disabled. The Error Out terminal of the SubVI is unwired in the calling VI. The SubVI returns an error to the calling VI. Will an error dialog be posted because of Automatic Error Handling?
  - a. No, since the SubVI has Automatic Error Handling disabled
  - b. Yes, since he SubVI has Automatic Error Handling disabled
  - c. No, since the Error Out terminal from the subVI is not wired in the calling VI.
  - d. Yes, since the Error Out terminal from the subVl is not wired in the calling VI.

## 15. Which of the following statements is FALSE?

- a. A SubVI connector pane defines where to wire inputs and outputs
- b. The color of a SubVI connector pane terminal matches the data type it is connected to
- c. You must have an icon/connector pane to use a SubVI
- d. A SubVI icon can be edited from the functions palette

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



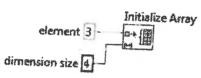
Madural Main Road (NH-45B), Manikandam, Approved by AICTE, NewDelhi & Affiliated to A NAAC

- 16. Which of the following cannot be used to transfer data?
  - a. Semaphores b. Queues c. Notifiers d. Local variable
- 17. The Error list shows all of the following EXCEPT:
  - a. Items with errors

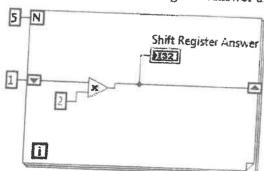
b. Errors and warnings

c. Details about the warnings

- d. Error Codes
- 18. Auto-indexing at loop boundary is a feature that allows: (More than one answer mayapply.)
  - a. Arrays to be automatically traversed from one iteration to the next
  - b. Array functions to automatically index array elements
  - c. Functions that use arrays to automatically index them
  - d. Arrays to be automatically accumulated at loop boundaries
- What is the output of the Initialize Array function after the following code has executed? 19



- a. 1-D Array of {3, 3, 3, 3}
- b. 1-D Array of {4, 4, 4}
- c. 1-D Array of {3, 4}
- d. 1-D Array of {4, 3}
- 20. Which of the following will cause an event to be captured by the Lab View Event Structure?
  - a. Changing a Front Panel control's Value via a mouse click on the control
  - b. Changing a Front Panel control's Value property via a property node
  - c. Changing a Front Panel control's Value via a control reference
  - d.. Changing a Front Panel control's Value via a local variable
- 21. Which variable is commonly used to eliminate race conditions by preventing simultaneous access to code or data?
  - a. Functional global variable
- b.Local variable
- c. Global variable
- d.Shared variable
- 22. What is the value in Shift Register Answer after the following code has executed?



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madural Main Road (NH-45B), Manikandam, Tirus Approved by AICTE, NewDelhi & Affiliated to Anna credited by NAAC with

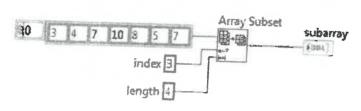
a.16

b.24

c.32

d,10

23. What is the result in subarray after the following code has executed?



- 1-D Array of {8, 5, 7}
- 1-D Array of {10, 8, 5} b.
- 1-D Array of {10, 8, 5, 7} c.
- 1-D Array of {7, 10, 8, 5} d,
- 24. How do you document a VI so that the description appears in the Show Context Help popup window?
  - a. Use the VI Properties Documentation window
  - b. Type in the Show Context Help window
  - c. Create a free label on the front panel
  - d. Edit the Lab View help files
- 25. Which of the following terminals controls how many times a For loop executes?
  - a
  - b

  - c

d

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



0

# Indra Ganesan

COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Tiruchirapalli-620 012
Approved by AlCTE, NewDelhi & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

# Value Added Course

"Lab View"

### ANSWER KEY

| 1 | b | 6  | ь | 11 | с | 16 | d      | 21 | ¢ |
|---|---|----|---|----|---|----|--------|----|---|
| 2 | b | 7  | b | 12 | a | 17 | a or d | 22 | С |
| 3 | d | 8  | a | 13 | d | 18 | a      | 23 | a |
| 4 | e | 9  | d | 14 | d | 19 | a      | 24 | d |
| 5 | с | 10 | С | 15 | a | 20 | a      | 25 | С |

Bala Karg

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Madural Main Road (NH-45B), Manikandam, Tiruchirapatti- 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal ccredited NAAC with



### Value Added Course " Lab View"

Name of the Student: Devi. K

0

AU Register Number: 811218106006

Year/Sem: IV /VII

# MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- 1. For implementing state diagrams that allow future application scalability, the best choice for a base structure is?
  - a. Sequence structure

c. Formula node

6 Case structure

- d. Object-Oriented structure
- 2. For implementing state diagrams that allow future application scalability, the best choice for a base structure is?
  - a. Sequence structure

b. Formula node

(b) Case structure

d. Object-Oriented structure

- 3. Clicking on the button allows you to bypass a node in the Block Diagram without single- stepping through the node.
  - a.Step Into

b. Step Over c. Step Out

(d) Step Through

4. Which of the following apply to Property Nodes? (More than one answer may apply.)

a. Property Nodes allow attributes of front panel objects to be pro grammatically manipulated.

b. Property Nodes can be used to update the values contained in a front panel object.

More than one Property Node can be used for a single front panel object.

d. Property Nodes can be used to pro grammatically generate a Value Change event.

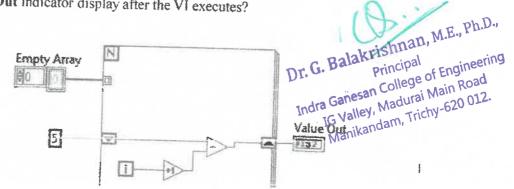
- 5. You have a front panel control on a top-level VI that you must control from within a subVI. What must you
  - a. The control's properties
  - c. The control's reference

(b) The control's methods

d. The control's data type

6. You set a Breakpoint in the code contained within the False case of a Case structure. Will the VI execution pause if the code in True case of the Case structure is being executed? (a) Yes b. No

7. What value does the Value Out indicator display after the VI executes?



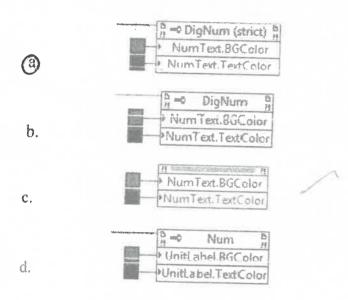


TE, NewDelhi & Affiliated to Anna University, with

a.0

c.5

8.. Which Property Node changes the text color attributes of any digital numeric control from a subVI?



9. Which chart update mode should be used to show running data continuously scrolling from left to right across the chart?

a. Strip Chart

b. Scope Chart

c. Sweep Chart

(d) Step Chart

10. Which of the following does not conform to the Dataflow programming paradigm?

a. Shift Registers

b. Tunnels (c) SubVIs

d.Local variables

11. If possible, a Sequence structure should be replaced with a(n)-

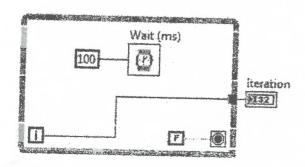
a.Event structure

b.For loop

(c)State machine

d. While loop

12. Which of the following statements is TRUE about the following code segment?



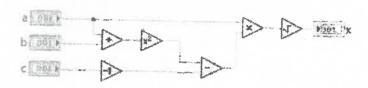
Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering 16 Valley, Madurai Main Road Manikandam, Trichy-620 012.



ENGIR Madural Main Road (NH-45B), Manikandam, Tiruchirapalli-Approved by AICTE, NewDelhi & Affiliated to Anna University, Accredited by NAAC with

- The loop will execute once and the indicator Iteration will have a value of one
- The loop will execute once and the indicator Iteration will have a value of zero
- The loop will execute infinitely and the program will have to be aborted c.
- The loop will not execute and the indicator Iteration will have a value of zero

## 13.. Which equation is equivalent to the code?



$$x = \sqrt{a \times ((a+b)^2 - (c-1))}$$

a.

d.

$$x = \sqrt{a \times ((c-1) - (a+b)^2)}$$

(c) 
$$x = \sqrt{a \times ((a+b^2) - (c-1))}$$

 $x = \sqrt{a^2 \times ((a+b)^2 - (c-1))}$ 

Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering Principal IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

1

- 14.. A VI has Automatic Error Handling enabled. It calls a SubVI that has Automatic Error Handling disabled. The Error Out terminal of the SubVI is unwired in the calling VI. The SubVIreturns an error to the calling VI. Will an error dialog be posted because of Automatic Error Handling?
  - a. No, since the SubVI has Automatic Error Handling disabled b. Yes, since he SubVI has Automatic Error Handling disabled
  - No, since the Error Out terminal from the subVI is not wired in the calling VI.
  - Yes, since the Error Out terminal from the subVI is not wired in the calling VI.
- 15. Which of the following statements is FALSE?
  - a. A SubVI connector pane defines where to wire inputs and outputs
  - (b) The color of a SubVI connector pane terminal matches the data type it is connected to
  - c. You must have an icon/connector pane to use a SubVI
  - d. A SubVI icon can be edited from the functions palette

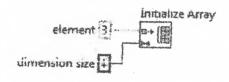




4 500 Approved by AICTE, NewDelhi & Affiliated to Anna University. Chennai Accredited by NAAC with

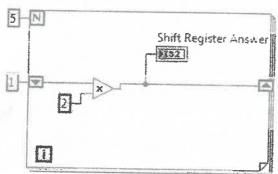
- 16. Which of the following cannot be used to transfer data?
  - a. Semaphores b.Queues c. Notifiers @Local variable
- 17. The Error list shows all of the following EXCEPT:
  - (a) Items with errors
  - c. Details about the warnings

- b. Errors and warnings
- d. Error Codes
- 18. Auto-indexing at loop boundary is a feature that allows: (More than one answer mayapply.)
  - (a) Arrays to be automatically traversed from one iteration to the next
  - b. Array functions to automatically index array elements
  - c. Functions that use arrays to automatically index them
  - d. Arrays to be automatically accumulated at loop boundaries
- What is the output of the Initialize Array function after the following code has executed? 19.



- a. 1-D Array of {3, 3, 3, 3}
- b. 1-D Array of {4, 4, 4}
- c. 1-D Array of {3, 4}
- (d) 1-D Array of {4, 3}
- 20. Which of the following will cause an event to be captured by the Lab View Event Structure?
  - (a) Changing a Front Panel control's Value via a mouse click on the control
  - b. Changing a Front Panel control's Value property via a property node
  - c. Changing a Front Panel control's Value via a control reference
  - d.. Changing a Front Panel control's Value via a local variable
- 21. Which variable is commonly used to eliminate race conditions by preventing simultaneous access to code or data?
  - (a) Functional global variable
- b.Local variable
- c. Global variable
- d.Shared variable

22. What is the value in Shift Register Answer after the following code has executed:



or. G. Balakrishnan, M.E., Ph.D.,

Principal



Madural Main Road (NH-45B), Manikandam, Tiruchirapatti- 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal Accredited by

0

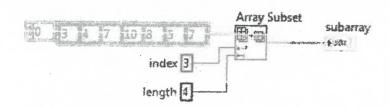
a.16

b.24

(c)32

d,10

23. What is the result in subarray after the following code has executed?



- (a) 1-D Array of {8, 5, 7}
  - 1-D Array of {10, 8, 5}
  - 1-D Array of {10, 8, 5, 7}
  - d. 1-D Array of {7, 10, 8, 5}

24. How do you document a VI so that the description appears in the Show Context Help popup window?

- a. Use the VI Properties Documentation window
- b. Type in the Show Context Help window
- c. Create a free label on the front panel
- (d) Edit the Lab View help files

25. Which of the following terminals controls how many times a For loop executes?

(a)

c

N đ

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madural Main Road (NH-45B), Manikandam, Tiruchtrapalli-Approved by AICTE, NewDelhi & Affiliated to Anna University, by NAAC



Value Added Course " Lab View"

Name of the Student: Abiraya . R.

0

AU Register Number: 811218106001

Year/Sem: IV / Vu

### MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

| 1. For implementing state diagrams that allow future application scalability, | the best | choice for a | a base structure | is? |
|---|----------|--------------|------------------|-----|
|---|----------|--------------|------------------|-----|

a. Sequence structure

(B) Case structure

c. Formula node

d. Object-Oriented structure

2 For implementing state diagrams that allow future application scalability, the best choice for a base structure is?

a. Sequence structure

b. Formula node

(b) Case structure d. Object-Oriented structure

3. Clicking on the button allows you to bypass a node in the Block Diagram without single- stepping through the node.

a.Step Into

b. Step Over c. Step Out

(d) Step Through

4. Which of the following apply to Property Nodes? (More than one answer may apply.)

a. Property Nodes allow attributes of front panel objects to be pro grammatically manipulated.

b. Property Nodes can be used to update the values contained in a front panel object.

(c) More than one Property Node can be used for a single front panel object.

d. Property Nodes can be used to pro grammatically generate a Value Change event.

5. You have a front panel centrol on a top-level VI that you must control from within a subVI. What must you pass to the subVI?

a. The control's properties

b. The control's methods

C) The control's reference

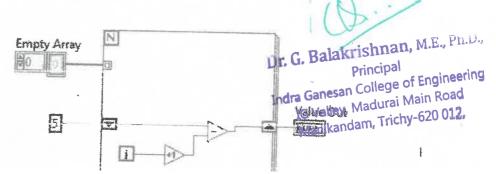
d. The control's data type

6. You set a Breakpoint in the code contained within the False case of a Case structure. Will the VI execution pause if the code in True case of the Case structure is being executed?

a. Yes

(b) No

7. What value does the Value Out indicator display after the VI executes?



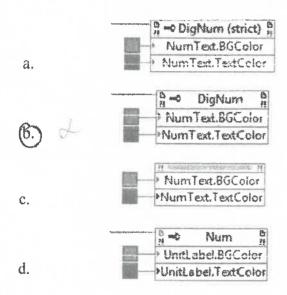


Madural Main Road (NH-458), Manikandam, Tiruchirapalli-Approved by AICTE, NewDelhi & Affiliated to Anna University, NAAC with

a.0 c.5

0

8. Which Property Node changes the text color attributes of any digital numeric control from a subV1?



9. Which chart update mode should be used to show running data continuously scrolling from left to right across the chart?

a. Strip Chart

b. Scope Chart

c. Sweep Chart

d) Step Chart

10. Which of the following does not conform to the Dataflow programming paradigm? b. Tunnels (c) SubVIs d.Local variables

a. Shift Registers

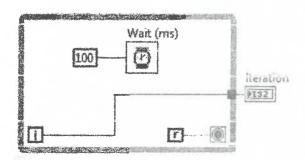
11. If possible, a Sequence structure should be replaced with a(n):

a.Event structure

b.For loop (c)State machine

d. While loop

12. Which of the following statements is TRUE about the following code segment?



Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Ì

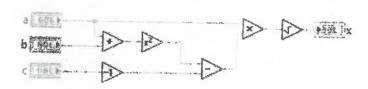


# Indra Ganesan

Madural Main Road (NH-45B), Manikandam, Tiruchirapalil-620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

- The loop will execute once and the indicator Iteration will have a value of one
- b. The loop will execute once and the indicator Iteration will have a value of zero
- c. The loop will execute infinitely and the program will have to be aborted
- d. The loop will not execute and the indicator Iteration will have a value of zero

### 13.. Which equation is equivalent to the code?



$$x = \sqrt{a \times ((a+h)^2 - (c-1))}$$

a.

$$x = \sqrt{a \times ((c-1) - (a+b)^2)}$$

$$x = \sqrt{a \times ((a+b^2) - (c-1))}$$

C.

(d.) 
$$x = \sqrt{a^2 \times ((a+b)^2 - (c-1))}$$

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Principal
Of Engineering
Indra Ganesan College of Engineering
Madurai Main Road
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

- 14..A VI has Automatic Error Handling enabled. It calls a SubVI that has Automatic Error Handling disabled. The Error Out terminal of the SubVI is unwired in the calling VI. The SubVI returns an error to the calling VI. Will an error dialog be posted because of Automatic Error Handling?
  - a. No, since the SubVI has Automatic Error Handling disabledb. Yes, since he SubVI has Automatic Error Handling disabled
  - c. No, since the Error Out terminal from the subVI is not wired in the calling VI.
  - d. Yes, since the Error Out terminal from the subVI is not wired in the calling VI.
- 15. Which of the following statements is FALSE?
  - A SubVI connector pane defines where to wire inputs and outputs
  - b. The color of a SubVI connector pane terminal matches the data type it is connected to
  - c. You must have an icon/connector pane to use a SubVI
  - d. A SubVI icon can be edited from the functions palette



# Indra Canesan

Madural Main Road (NH-45B), Manikandam, Tiruchirapatil-620 012
Approved by AlCTE, NewDelhi & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

16. Which of the following cannot be used to transfer data?

a. Semaphores b.Queues c. Notifiers (Local variable

- 17. The Error list shows all of the following EXCEPT:
  - a. Items with errors
  - c. Details about the warnings

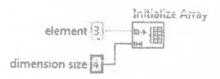
b. Errors and warnings

d Error Codes

18. Auto-indexing at loop boundary is a feature that allows: (More than one answer mayapply.)

a Arrays to be automatically traversed from one iteration to the next

- b. Array functions to automatically index array elements
- c. Functions that use arrays to automatically index them
- d. Arrays to be automatically accumulated at loop boundaries
- 19. What is the output of the Initialize Array function after the following code has executed?



- (a) 1-D Array of {3, 3, 3, 3}
- b. 1-D Array of {4, 4, 4}
- c. 1-D Array of {3, 4}
- d. I-D Array of {4, 3}
- 20. Which of the following will cause an event to be captured by the Lab View Event Structure?

(a) Changing a Front Panel control's Value via a mouse click on the control

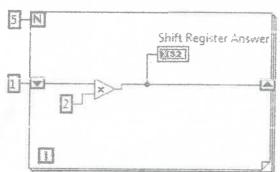
- b. Changing a Front Panel control's Value property via a property node
- c. Changing a Front Panel control's Value via a control reference
- d.. Changing a Front Panel control's Value via a local variable
- 21. Which variable is commonly used to eliminate race conditions by preventing simultaneous access to code or data?
  - a. Functional global variable

b.Local variable

Global variable

d.Shared variable

22. What is the value in Shift Register Answer after the following code has executed?



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



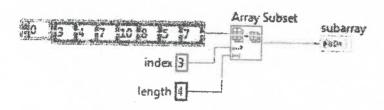
0

# Indra Ganesan

Madural Main Road (NH-458), Manikandam, Tiruchirapalli-620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University. Chennal
Accredited by NAAC with B+ Grade

| a.16 | b.24 | (E.\$2 | d,10 |
|------|------|--------|------|

23. What is the result in subarray after the following code has executed?



- (a) 1-D Array of {8, 5, 7} b. 1-D Array of {10, 8, 5}
  - c. 1-D Array of {10, 8, 5, 7}
- d. 1-D Array of {7, 10, 8, 5}
- d. 1-D Array of {/, 10, 8, 5}

24. How do you document a VI so that the description appears in the Show Context Help popup window?

- a. Use the VI Properties Documentation window
- b. Type in the Show Context Help window
- c. Create a free label on the front panel
- d Edit the Lab View help files

25. Which of the following terminals controls how many times a For loop executes?

| a   | Ħ         |  |
|-----|-----------|--|
| b   | <b>(!</b> |  |
| (c) |           |  |
| d   | N         |  |

Dr. G. Balakrishnan, M.E., Ph.D.,



- 4) Which metal from the following has the non-crystalline structure?
  - a. Quartz
  - b. Silica Glass
  - c. Tungsten
  - d. Iron
- 5) Which of the following has less crystallinity?
  - a. Iron
  - b. Low-density polythene
  - c. High-density polythene
  - d. nickel
- 6) Which of the following axis system is being satisfied by tetragonal crystal system?

a. 
$$a = b \neq c$$
,  $\alpha = \beta = Y = 90^{\circ}$ 

b. 
$$a = b = c, \alpha \neq \beta = Y = 90^{\circ}$$

c. 
$$a = b = c$$
,  $\alpha = \beta = Y = 90^{\circ}$ 

d. 
$$a \neq b \neq c$$
,  $\alpha = \beta = Y = 90^{\circ}$ 

- 7) Which one of the following is least symmetrical?
  - a. Triclinic
  - b. Monoclinic
  - c. Tetragonal
  - d. Simple Qubic

Dr. G. Balakrishman, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



### 8) ASTM stands for?

- a. American Society for Tool Measurement
- b. American Society for Tensile Material
- c. American Society for Tensile Measurement
- d. American Society for Testing and Materials
- 9) What is the scale range of the Mohs hardness test?
  - a. 1 1000
  - b. 100 200
  - c. 1 3000
  - d. 1-10
  - 10) Cast iron is a product of \_\_\_\_\_
    - a. Cupola
    - b. Blast Furnace
    - c. Open hearth furnace
    - d. Bessemer converter
  - 11) Wrought iron is a product of \_\_\_\_\_
    - a. Cupola
    - b. Paddling furnace
    - c. Blast furnace
    - d. Bessemer converter

... O. Balakrishnan, M.E., Ph.D., Principal



| 12) Which of the following induc | es fine-grain distribution i | n alloy steel? |
|----------------------------------|------------------------------|----------------|
|----------------------------------|------------------------------|----------------|

|   | B. I |      | kel  |
|---|------|------|------|
| - | NΙ   | 1.00 |      |
|   | I VI | 1.2  | K PI |
|   |      |      |      |

- b. Titanium
- c. Manganese
- d. Vanadium
- 13) Tensile strength of alloy steel can be improved by adding \_\_\_\_\_
  - a. Nickel
  - b. Titanium
  - c. Manganese
  - d. vanadium
- 14) Which of the following is the hardest constituent of steel?
  - a. Ledeburite
  - b. Marten site
  - c. Bainite
  - d. austenite
- 15) Iron possesses BCC crystal structure up to (in degree centigrade)?
  - a. 910
  - b. 1410
  - c. 1539
  - d. 768

Dr. G. Balakrishnan, M.E., Ph.D.,



- 16) Which of the following form of iron is magnetic?
  - a. δ
  - b. y
  - c. λ
  - d. α
- 17) Which of the following are ceramics solids?
  - a. Non-metallic, inorganic, and crystalline solids
  - b. Metallic, inorganic, and amorphous solids
  - c. Non-metallic, inorganic, and amorphous solids
  - d. Non-metallic, organic, and amorphous solids
- 18) For an M10 grade RCC (Reinforced Cement Concrete), the cement ratio to aggregate to the sand is?
  - a. 1:2:3
  - b. 1:2:6
  - c. 1:3:6
  - d. 1:3:4
- 19) Which one of the following can act as a modifier in the glass-forming process
  - a. Silicon dioxide
  - b. Phosphorous oxide
  - c. Magnesium oxide
  - d. Sodium oxide

Dr. G. Balakrishnan, M.E., Ph.D.



20) Which of the following is not a laminar composite

- a. Bimetallic
- b. Wood
- c. Paints
- d. cladding
- 21) In sandwich composites, which of the following material can be used for filling purposes?
  - a. Wood
  - b. Cement
  - c. All of them
  - d. polymer
- 22) Which of the following has a greater impact on the longitudinal strength of reinforced composites?
  - a. Fiber orientation
  - b. Fiber diameter
  - c. Fiber length
  - d. Fiber strength
- 23) Angle between side cutting edge and end cutting edge in the top surface plane of the tool.
  - a. Side rake angle
  - b. Nose angle
  - c. Side cutting edge angle
  - d. Side relief angle

Dr. G. Balakrishnan, M.E., Ph.D., Principal



24) What is the maximum allowed value of VB in mm for the HSS tool used with the cast iron work piece for rough machining?

- a. 0.5
- b. 2
- c. 1.5
  - d. 1

25) Which of the following tools is most suitable for very hard and brittle material?

- a. HSS
- b. Carbides
- c. None of them
- d. Cast cobalt alloy

Dr. G. Balakrishnan, M.E., Ph.D., Principal



## Value Added Course

## "solid state Joining Technologies"

### ANSWER KEY

| 1 | С | 6  | С | 11 | b | 16 | С | 21 | b |
|---|---|----|---|----|---|----|---|----|---|
| 2 | b | 7  | b | 12 | a | 17 | d | 22 | d |
| 3 | d | 8  | d | 13 | b | 18 | b | 23 | c |
| 4 | b | 9  | a | 14 | d | 19 | a | 24 | a |
| 5 | С | 10 | d | 15 | a | 20 | С | 25 | ь |

VAC COORDINATOR

Name of the Student: 811218114004

Year/Sem: W Med

AU Register Number: Hagunaya

TI 1 Add Cours

Value Added Course

"Solid state joining Technologies"

# MCQ QUESTIONS (25X4 = 100 Marks)

1) What we call the resistance of a material against any external force.

a. Stiffness

- b. Hardness
- c. Strength
- d. Malleability
- 2) Which hardness test uses the steel ball as indenter?
  - a. Brinell Hardness test
  - b. Rockwell B hardness test
  - . Vickers hardness test
  - d. Rockwell C hardness test
- 3) In which test, the specimen will be used in the form of the supported beam?

(a.) Brinell Test

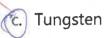
- b. Izod test
- c. Rockwell hardness test
- d. Charpy Test

Dr. G. Balakrishnan, M.E., Ph.D.,



- 4) Which metal from the following has the non-crystalline structure?
  - a. Quartz





- d. Iron
- 5) Which of the following has less crystallinity?
  - a. Iron
  - b. Low-density polythene
  - ĉ. High-density polythene
  - d. nickel
- 6) Which of the following axis system is being satisfied by tetragonal crystal system?

a. 
$$a = b \neq c, \alpha = \beta = Y = 90^{\circ}$$

b. 
$$a = b = c, \alpha \neq \beta = Y = 90^{\circ}$$

$$(c.)$$
 a = b = c,  $\alpha = \beta = Y = 90^{\circ}$ 

d. 
$$a \neq b \neq c$$
,  $\alpha = \beta = Y = 90^{\circ}$ 

- 7) Which one of the following is least symmetrical?
  - a. Triclinic
  - b. Monoclinic
  - c. Tetragonal
  - d. Simple Qubic



### 8) ASTM stands for?

- a. American Society for Tool Measurement
- b. American Society for Tensile Material
- c. American Society for Tensile Measurement
- d American Society for Testing and Materials
- 9) What is the scale range of the Mohs hardness test?
  - (a) 1 1000
    - b. 100 200
    - c. 1 3000
    - d. 1-10
- 10) Cast iron is a product of \_\_\_\_\_
  - a. Cupola
  - b. Blast Furnace
  - c. Open hearth furnace
  - d Bessemer converter
- 11) Wrought iron is a product of \_\_\_\_\_
  - a. Cupola
  - (b.) Paddling furnace
  - c. Blast furnace
  - d. Bessemer converter

Dr. G. Balakrishnan, M.E., Ph.D., Principal



| 12) Which of the following induc | es fine-grain distribution | in alloy steel? |
|----------------------------------|----------------------------|-----------------|
|----------------------------------|----------------------------|-----------------|

| .2) Which of the following induces fine-grain   | distribution in anoy seed.   |  |
|---|--|--|
| a. Nickel   |  |  |
| (b) Titanium  |  |  |
| c. Manganese d. Vanadium  Tensile strength of alloy steel can be improved by adding a. Nickel b. Titanium c. Manganese d. vanadium  Which of the following is the hardest constituent of steel?  a. Ledeburite b. Marten site c. Bainite d. austenite |  |  |
| d. Vanadium   |  |  |
|   | and the second s | Appr 8. Appr 9.  |
| 12) Tancile strength of alloy steel can be impr   | roved by adding  | . " "  |
| 15) Terisile sciengur of diloy stock same in  |  |  |
| a. Nickel   |  |  |
| (b) Titanium  |  |  |
| c. Manganese  |  |  |
| d. vanadium   |  |  |
| 14) Which of the following is the hardest con   | stituent of steel?   |  |
| a. Ledeburite   |  |  |
| b. Marten site  |  |  |
| c. Bainite  |  |  |
| d. austenite  |  |  |
|   | · · · · · · · · · · · · · · · · · · ·  | and the second s |
| 15) Iron possesses BCC crystal structure up to  | o (in degree centigrade)?  |  |
| (a. 910   |  |  |
| b. 1410   |  |  |
|   |  |  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

c. 1539

d. 768



- 16) Which of the following form of iron is magnetic?
  - a. δ
  - b. γ
  - (c.) λ
  - d. α
- 17) Which of the following are ceramics solids?
  - a. Non-metallic, inorganic, and crystalline solids
  - b. Metallic, inorganic, and amorphous solids
  - c. Non-metallic, inorganic, and amorphous solids
  - d Non-metallic, organic, and amorphous solids
- 18) For an M10 grade RCC (Reinforced Cement Concrete), the cement ratio to aggregate to the sand is?
  - a. 1:2:3
  - b. 1:2:6
  - c. 1:3:6
  - d. 1:3:4
- 19) Which one of the following can act as a modifier in the glass-forming process
  - a.) Silicon dioxide
  - b. Phosphorous oxide
  - c. Magnesium oxide
  - d. Sodium oxide

Dr. G. Balakrishnan, M.E., Ph.D.

Principal



20) Which of the following is not a laminar composite

- a. Bimetallic
- b. Wood
- c. Paints
- d. cladding

21) In sandwich composites, which of the following material can be used for filling purposes?

- a. Wood
- b. Cement
- c. All of them
- d. polymer

22) Which of the following has a greater impact on the longitudinal strength of reinforced composites?

- a. Fiber orientation
- b. Fiber diameter
- c. Fiber length
- d. Fiber strength

23) Angle between side cutting edge and end cutting edge in the top surface plane of the tool.

- a. Side rake angle
- b. Nose angle
- (c. Side cutting edge angle
- d. Side relief angle

Principal



24) What is the maximum allowed value of VB in mm for the HSS tool used with the cast iron work piece for rough machining?

- (a.) 0.5
- b. 2
- c. 1.5
- d. 1

25) Which of the following tools is most suitable for very hard and brittle material?

- a. HSS
- b. Carbides
- c. None of them
- d. Cast cobalt alloy

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Name of the Student:

Year/Sem:

AU Register Number:

# Value Added Course

# "Manipulation of Nano Technology in Materials"

# MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

| 1. Nanomaterials are the materials with at least one dime | nsion measuring less than |
|---|---------------------------|
| 0) 1  |                           |

| are the materials with at least one dimer                | nsion measuring less than                       |
|--|---|
| a) 1 nm  |   |
| b) 10 nm   |   |
| c) 100 nm  |   |
| d) 1000 nm   |   |
| 2. A material with one dimension in Nano range and the o | ther two dimensions are large is called         |
| a) Micro-material  |   |
| b) Quantum wire  |   |
| c) Quantum well  |   |
| d) Quantum dot   |   |
| 3. The colour of the nano gold particles isa) Yellow     |   |
| b) Orange  |   |
| c) Red   |   |
| d) Variable  | . •   |
|  | (1)   |
| 4. The melting point of particles in nano form           |   |
| a) increases   | Dr. G. Balakrishnan, M.E., Ph.D.,               |
| b) Decreases   | Principal                                       |
| c) Remains same  | Indra Ganesan College                           |
| d) Increases then decreases                              | IG Valley, Madurai Main Road  Manikandam, Trial |
| 5 TTI  | Manikandam, Trichy-620 012.                     |
| 5. The first talk about nano-technology was given by     | 119 020 012.                                    |
| a) Albert Einstein                                       |   |
| b) Newton  |   |
| c) Gordon E. Moore                                       |   |

- 6. Which of the processes of materials was not described as Nanotechnology?
- a) Separation

d) Richard Feynman

- b) Creation
- c) Processing
- d) Consolidation



| <ul><li>7. The initial tools used to help launch the nanoscien</li><li>a) Binoculars</li><li>b) Microscope</li><li>c) Scanning probe instruments</li><li>d) Interferometer</li></ul>  | ce revolution were  |
|---|---|
| <ul><li>8. When semiconductors are reduced to nanometres t</li><li>a) True</li><li>b) False</li></ul>   | they become pure conductors.  |
| <ul><li>9. The major difference between the nano materials of the total number of atoms on the surface.</li><li>a) True</li><li>b) False</li></ul>  | compared to the bulk form is the big fraction of  |
| 10. The size of atoms is nearlya) 0.01 nm b) 0.1 nm c) 1 nm d) 10 nm  |   |
| <ul><li>11. What is nanotechnology?</li><li>a) The study of extremely small particles</li><li>b) The study of large-scale engineering</li><li>c) The study of space exploration</li><li>d) The study of quantum mechanics</li></ul> |   |
| 12. Which of the following is NOT a characteristic of a) Small size b) Large surface area c) High stability d) Unique properties  | nanomaterials?  Dr. G. Balakrishnan, M.E., Ph.D.,   |
| 13. What is the size range for nanoparticles? a) 1 to 10 centimeters b) 1 to 10 micrometers c) 1 to 10 nanometers d) 1 to 10 millimeters  | Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 14. Which of the following fields is NOT influenced by a) Medicine  | nanotechnology?   |

15. What is the term for the process of manipulating matter at the atomic or molecular level?

a) Nanosynthesis

b) Electronicsc) Agricultured) Geology

- b) Nanomaterialization
- a) Manamaninulation



- 16. Which of the following is an example of a bottom-up approach in nanofabrication?
- a) Lithography
- b) Chemical vapor deposition
- c) Molecular self-assembly
- d) Physical vapor deposition
- 17. What is the term for a material that exhibits different properties at the nanoscale compared to its bulk form?
- a) Nanostructure
- b) Nanocomposite
- c) Nanoparticle
- d) Nanotube
- 18. Which of the following is NOT a potential application of nanotechnology in medicine?
- a) Targeted drug delivery
- b) Tissue engineering
- c) Gene therapy
- d) Nuclear power generation
- 19. What is the term for the ability of nanomaterials to self-repair or adapt to changing conditions?
- a) Self-assembly
- b) Self-replication
- c) Self-healing
- d) Self-organization
- 20. Which of the following is an example of a top-down approach in nanofabrication?
- a) Nanoparticle synthesis
- b) Atomic layer deposition
- c) Electron beam lithography
- d) Chemical vapor deposition
- 21. What is the term for the study and control of matter at the nanoscale?
- a) Nanoscience
- b) Microscience
- c) Macroscience
- d) Nanoengineering

Dr. G. Balakri hnan. M.E., Ph.D.,

Principal

- 22. Which of the following is an example of a carbon-based nanomaterial?
- a) Gold nanoparticle
- b) Quantum dot
- c) Carbon nanotube
- d) Silica nanoparticle



- 23. What is the term for the property of nanomaterials that allows them to conduct electricity?
- a) Ferromagnetism
- b) Superconductivity
- c) Thermoelectricity
- d) Quantum confinement
- 24. Which of the following is an example of a nanoparticle-based sunscreen?
- a) Titanium dioxide
- b) Zinc oxide
- c) Silver nanoparticles
- d) Gold nanoparticles
- 25. What is the term for the process of removing or altering individual atoms or molecules from a surface?
- a) Nanopatterning
- b) Etching
- c) Deposition
- d) Self-assembly

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



# <u>Value Added Course</u> "Manipulation of Nano Technology in Materials"

### ANSWER KEY

| 1 | C | 6  | В | 11 | A | 16 | ·C | 21 | A |
|---|---|----|---|----|---|----|----|----|---|
| 2 | С | 7  | С | 12 | С | 17 | A  | 22 | С |
| 3 | D | 8  | В | 13 | С | 18 | D  | 23 | D |
| 4 | В | 9  | A | 14 | D | 19 | ·C | 24 | A |
| 5 | D | 10 | В | 15 | D | 20 | С  | 25 | В |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Name of the Student: Pasika. A

Year/Sem:

AU Register Number: 811220205035

## Value Added Course

"Manipulation of Nano Technology in Materials"

| MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)   |  |
|---|--|
| 1. Nanomaterials are the materials with at least one dimension mea  | asuring less than                      |
| a) 1 nm b) 10 nm c) 100 nm d) 1000 nm 2. A material with one dimension in Nano range and the other two a) Micro-material b) Quantum wire c) Quantum well d) Quantum dot 3. The colour of the nano gold particles is a) Yellow b) Orange | dimensions are large is called         |
| c) Red  | 10                                     |
| d) Variable   | CD.                                    |
| 4. The melting point of particles in nano form  | Dr. G. Balakrishnan, M.E., Ph.D.,      |
| a) Increases  | Principal                              |
| b) Decreases  | Indra Ganesan College of Engineering   |
| c) Remains same   | IG Valley, Madurai Main Road           |
| d) Increases then decreases   | Manikandam, Trichy-620 012.            |
| 5. The first talk about nano-technology was given by  | -                                      |
| a) Albert Einstein b) Newton  |  |
| c) Gordon E. Moore  |  |
| a) Richard Feynman  |  |
| 6. Which of the processes of materials was not described as Nanot   | echnology?                             |
| a) Separation   | •••••••••••••••••••••••••••••••••••••• |
| b) Creation   |  |
| c) Processing   |  |
| d) Consolidation  |  |
| 7. The initial tools used to help launch the nanoscience revolution   | were                                   |
| a) Binoculars   |  |
| b) Microscope   |  |
| Scanning probe instruments  |  |
| d) Interferemeter   |  |

8. When semiconductors are reduced to nanometres they become pure conductors.

a) True



| to Amia University, Chennal  |  |
|--|--|
| 9. The major difference between the nano materials compared to the bulk form is the big                  |  |
| naction of the total number of atoms on the surface.   |  |
| 2) True  |  |
| b) False   |  |
| 10. The size of atoms is nearly  |  |
| a) 0.01 nm   |  |
| 6)0.1 nm   |  |
| c) 1 nm  |  |
| d) 10 nm   |  |
| 11. What is nanotechnology?  |  |
| a) The study of extremely small particles  |  |
| b) The study of large-scale engineering  |  |
| c) The study of space exploration  |  |
| d) The study of quantum mechanics  |  |
| 12. Which of the following is NOT a characteristic of nanomaterials?                                     |  |
| a) Small size  |  |
| b) Large surface area  |  |
| P) High stability  |  |
| d) Unique properties   |  |
| 13. What is the size range for nanoparticles?  a) 1 to 10 centimeters  Dr. G. Balakrishnan, M.E., Ph.D., |  |
| a) 1 to 10 centimeters   |  |
| b) 1 to 10 micrometers  N) 1 to 10 panometers  Indra Ganesan College of Engineering                      |  |
| (i Valley Madurai Mai- n - 1   |  |
| Manikandam Trichy Coo os o   |  |
| 14. Which of the following fields is NOT influenced by nanotechnology?                                   |  |
| a) Medicine  |  |
| b) Electronics   |  |
| c) Agriculture   |  |
| d) Geology   |  |
| 15. What is the term for the process of manipulating matter at the atomic or molecular level?            |  |
| a) Nanosynthesis   |  |
| b) Nanomaterialization   |  |
| c) Nanomanipulation  |  |
| A) Nanofabrication   |  |
| 16. Which of the following is an example of a bottom-up approach in nanofabrication?                     |  |
| a) Liniography   |  |
| b) Chemical vapor deposition   |  |
| c) Molecular self-assembly   |  |
| d) Physical vapor deposition   |  |
| 17. What is the term for a material that exhibits different properties at the nanoscale compared to its  |  |
| OUIX TOTAL!  |  |
| a) Nanostructure   |  |
| b) Nanocomposite   |  |
| c) Nanoparticle  |  |
| d) Nanotube  |  |
| 18. Which of the following is NOT a potential application of nanotechnology in medicine?                 |  |
| a) Targeted drug delivery  |  |
| b) Tissue engineering  |  |
| c) Gene therapy  |  |
| A) Nuclear power generation  |  |
|  |  |



- 19. What is the term for the ability of nanomaterials to self-repair or adapt to changing conditions? a) Self-assembly
- b) Self-replication
- c) Self-healing
- d) Self-organization
- 20. Which of the following is an example of a top-down approach in nanofabrication?
- a) Nanoparticle synthesis
- b) Atomic layer deposition
- A Electron beam lithography
- d) Chemical vapor deposition
- 21. What is the term for the study and control of matter at the nanoscale?
- a) Nanoscience
- b) Microscience
- c) Macroscience
- d) Nanoengineering
- 22. Which of the following is an example of a carbon-based nanomaterial?
- a) Gold nanoparticle
- b) Quantum dot
- c) Carbon nanotube
- d) Silica nanoparticle
- 23. What is the term for the property of nanomaterials that allows them to conduct electricity?
- a) Ferromagnetism
- b) Superconductivity
- c) Thermoelectricity
- d) Quantum confinement
- 24. Which of the following is an example of a nanoparticle-based sunscreen?
- a) Titanium dioxide
- b) Zinc oxide
- c) Silver nanoparticles
- d) Gold nanoparticles
- 25. What is the term for the process of removing or altering individual atoms or molecules from a
- a) Nanopatterning
- b) Etching
- c) Deposition
- d) Self-assembly

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Name of the Student: Akilandeswan. f Year/Sem: AU Register Number: 8112 19 205002 Value Added Course "Manipulation of Nano Technology in Materials" **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)** 1. Nanomaterials are the materials with at least one dimension measuring less than a) 1 nm b) 10 nm c) 100 nm d) 1000 nm 2. A material with one dimension in Nano range and the other two dimensions are large is called a) Micro-material b) Quantum wire e Quantum well d) Quantum dot 3. The colour of the nano gold particles is a) Yellow b) Orange c) Red d'Variable 4. The melting point of particles in nano form Dr. G. Balakrishnan, M.E., Ph.D., a) Increases Decreases **Principal** Indra Ganesan College of Engineering c) Remains same IG Valley, Madurai Main Road d) Increases then decreases 5. The first talk about nano-technology was given by Manikandam, Trichy-620 012. a) Albert Einstein b) Newton c) Gordon E. Moore d) Richard Feynman 6. Which of the processes of materials was not described as Nanotechnology? a) Separation b) Creation e) Processing d) Consolidation 7. The initial tools used to help launch the nanoscience revolution were \_ a) Binoculars b) Microscope c) Scanning probe instruments d) Interferometer

8. When semiconductors are reduced to nanometres they become pure conductors.

a) True b) False



9. The major difference between the nano materials compared to the bulk form is the big fraction of the total number of atoms on the surface. a) True b) False 10. The size of atoms is nearly a) 0.01 nm b) 0.1 nm c)1 nm d) 10 nm 11. What is nanotechnology? a) The study of extremely small particles b) The study of large-scale engineering c) The study of space exploration d) The study of quantum mechanics 12. Which of the following is NOT a characteristic of nanomaterials? a) Small size b) Large surface area High stability d) Unique properties 13. What is the size range for nanoparticles? an to 10 centimeters b) 1 to 10 micrometers c) 1 to 10 nanometers d) 1 to 10 millimeters 14. Which of the following fields is NOT influenced by nanotechnology?r. G. Balakrishnan, M.E., Ph.D., b) Electronics Principal Indra Ganesan College of Engineering Agriculture IG Valley, Madurai Main Road d) Geology 15. What is the term for the process of manipulating matter at the atomic or molecular level? Manikandam, Trichy-620 012. a) Nanosynthesis b) Nanomaterialization c) Nanomanipulation A) Nanofabrication 16. Which of the following is an example of a bottom-up approach in nanofabrication? a) Lithography b) Chemical vapor deposition Molecular self-assembly d) Physical vapor deposition 17. What is the term for a material that exhibits different properties at the nanoscale compared to its bulk form? a) Nanostructure b) Nanocomposite c) Nanoparticle d) Nanotube 18. Which of the following is NOT a potential application of nanotechnology in medicine? a) Targeted drug delivery b) Tissue engineering c) Gene therapy

d) Nuclear power generation



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

19. What is the term for the ability of nanomaterials to self-repair or adapt to changing conditions? a) Self-assembly b) Self-replication c) Self-healing d) Self-organization 20. Which of the following is an example of a top-down approach in nanofabrication? a) Nanoparticle synthesis b) Atomic layer deposition c) Electron beam lithography d) Chemical vapor deposition 21. What is the term for the study and control of matter at the nanoscale? a) Nanoscience b) Microscience g) Macroscience d) Nanoengineering 22. Which of the following is an example of a carbon-based nanomaterial? a) Gold nanoparticle b) Quantum dot c) Carbon nanotube d) Silica nanoparticle 23. What is the term for the property of nanomaterials that allows them to conduct electricity? a) Ferromagnetism b) Superconductivity c) Thermoelectricity d Ouantum confinement 24. Which of the following is an example of a nanoparticle-based sunscreen? a) Titanium dioxide b) Zinc oxide c) Silver nanoparticles d) Gold nanoparticles 25. What is the term for the process of removing or altering individual atoms or molecules from a surface? a) Nanopatterning b) Etching c) Deposition d) Self-assembly

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Name of the Student: Javavi. S

Year/Sem: \V

AU Register Number:

b) Microscope

d) Interferometer

a True b) False

9 Scanning probe instruments

811218205006

## Value Added Course

"Manipulation of Nano Technology in Materials" **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)** 1. Nanomaterials are the materials with at least one dimension measuring less than a) 1 nm b) 10 nm 200 nm d) 1000 nm 2. A material with one dimension in Nano range and the other two dimensions are large is called a) Micro-material b) Quantum wire (C) Quantum well d) Quantum dot 3. The colour of the nano gold particles is \_\_\_\_\_ a) Yellow b) Orange c) Red (A) Variable 4. The melting point of particles in nano form a) Increases め) Decreases c) Remains same d) Increases then decreases 5. The first talk about nano-technology was given by Dr. G. Balakrishnan, M.E., Ph.D., a) Albert Einstein b) Newton Principal c) Gordon E. Moore Indra Ganesan College of Engineering (d) Richard Feynman IG Valley, Madurai Main Road 6. Which of the processes of materials was not described as Nanotechnology? Manikandam, Trichy-620 012. a) Separation b) Creation c) Processing d) Consolidation 7. The initial tools used to help launch the nanoscience revolution were \_\_\_\_\_ a) Binoculars

8. When semiconductors are reduced to nanometres they become pure conductors.



| Chennai Callinated to Anna University, Chennai  |
|---|
| 9. The major difference between the nano materials compared to the bulk form is the big   |
| The state of along the surface  |
| a) I rue  |
| b) False  |
| 10. The size of atoms is nearly   |
| a) 0.01 nm  |
| _b) \( \text{0.1 nm} \)   |
| c) 1 nm   |
| d) 10 nm  |
| 11. What is nanotechnology?   |
| The study of extremely small particles  |
| b) The study of large-scale engineering.  |
| c) The study of space exploration   |
| d) The study of quantum mechanics   |
| 12. Which of the following is NOT a characteristic of nanomaterials?  |
| a) Sinan size   |
| b) Large surface area   |
| c) High stability   |
| d) Unique properties  |
| 13. What is the size range for nanoparticles?   |
| a) 1 to 10 centimeters  |
| b) 1 to 10 micrometers  |
| to 10 nanometers  |
| d) 1 to 10 millimeters  |
| 14. Which of the following fields is NOT influenced by nanotechnology? Balakrishnan, M.E., Ph.D., a) Medicine   |
| a) Medicine   |
| 15 Total  |
| of Commontance College of Engineering   |
| d) Gooless Walley, Madurai Main Road  |
| 15. What is the term for the process of manipulating matter at the atomic or molecular level?   |
| a) Nanosynthesis  |
| b) Nanomaterialization  |
| c) Nanomanipulation   |
| (a) Nanofabrication   |
|   |
| 16. Which of the following is an example of a bottom-up approach in nanofabrication?  |
| b) Chemical vapor deposition  |
| c) Molecular self-assembly  |
| d) Physical vapor deposition  |
| 17. What is the term for a material that and the second   |
| 17. What is the term for a material that exhibits different properties at the nanoscale compared to its bulk form?  |
| a) Nanostructure  |
| b) Nanocomposite  |
| Nanoparticle  |
| d) Nanotube   |
|   |
| 18. Which of the following is NOT a potential application of nanotechnology in medicine?  a) Targeted drug delivery   |
| b) Tissue engineering   |
| c) Gene therapy   |
| Nuclear power generation  |
| The responsibility of |

- 19. What is the term for the ability of nanomaterials to self-repair or adapt to changing conditions?
- a) Self-assembly
- b) Self-replication
- c) Self-healing
- & Self-organization
- 20. Which of the following is an example of a top-down approach in nanofabrication?
- a) Nanoparticle synthesis
- b) Atomic layer deposition
- Electron beam lithography
- d) Chemical vapor deposition
- 21. What is the term for the study and control of matter at the nanoscale?
- a) Nanoscience
- **b**) Microscience
- c) Macroscience
- d) Nanoengineering
- 22. Which of the following is an example of a carbon-based nanomaterial?
- a) Gold nanoparticle
- b) Ouantum dot
- © Carbon nanotube
- d) Silica nanoparticle 🗸
- 23. What is the term for the property of nanomaterials that allows them to conduct electricity?
- a) Ferromagnetism
- b) Superconductivity
- E) Thermoelectricity
- d) Quantum confinement
- 24. Which of the following is an example of a nanoparticle-based sunscreen?
- a) Titanium dioxide
- め) Zinc oxide
- c) Silver nanoparticles
- d) Gold nanoparticles
- 25. What is the term for the process of removing or altering individual atoms or molecules from a surface?
- a) Nanopatterning
- b) Etching
- c) Deposition
- Self-assembly

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappaili - 620 012 Approved by AICTE, NewDelbi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Year/Sem:

**AU Register Number:** 

### Value Added Course

"Basic of electrical, plumbing & two wheeler mechanism"

### **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)**

- 1. Which of the following elements of electrical engineering cannot be analyzed using Ohm's law?
  - a) Capacitors
  - b) Inductors
  - c) Transistors
  - d) Resistance
- 2. What is constant for a charged spherical shell according to basic electrical energy?
  - a) Electrical potential outside the spherical shell
  - b) Electrical potential inside the spherical shell
  - c) Electrical field outside the spherical shell
  - d) Electrical field inside the spherical shell
- 3. Which of the following according to fundaments of electrical energy is correct about alternating current?
- a) Frequency is zero
- b) Magnitude changes with time
- c) Can be transported to larger distances with less loss in power
- d) Flows in both directions
- 4. What will be the direction of the drift velocity of electrons change with respect to the electric field?
- a) same as that of electric field
- b) opposite to that of electric field
- c) perpendicular to that of the electric field in a positive direction
- d) perpendicular to that of the electric field in a negative direction
- 5. What is zero for a charged spherical shell?
  - a) Electrical potential outside the spherical shell
  - b) Electrical potential inside the spherical shell
  - c) Electrical field outside the spherical shell
  - d) Electrical field inside the spherical shell

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



# Indra Ganesan COLLEGE OF ENGINEERING



Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chenana NAAC Accredited, 2(F) Status Institution by UGC

| 6. What kind of quantity is an Electric potential?   |  |
|--|--|
| a) Vector quantity                                   | •                                      |
| b) Tensor quantity                                   |  |
| c) Scalar quantity                                   |  |
| d) Dimensionless quantity                            |  |
| a) 2 mionoso quintity                                |  |
| 7. Which of the following will happen in a transform | ner when the number of secondary       |
| turns is less than the number of primary turns?      |  |
| a) The voltage gets stepped up                       |  |
| b) The voltage gets stepped down                     |  |
| c) The power gets stepped up                         |  |
| d) The power gets stepped down                       |  |
| d) The power gets stepped down                       |  |
| 8. A is a measuring tape consisting of a long, cor   | ntinuous steel strip that is graduated |
| in standard increments.                              | temadas secon serip enac is 61 addaeca |
| a) Coil  |  |
| b) Reel  |  |
| c) Blade lock  |  |
| d) Steel tape  |  |
| d) Steel tape  |  |
| 9. A plumb bob is a cone shaped metal weight fasten  | ed to a string that is used to         |
| establish a true                                     | od to a string that is used to         |
| a) Transfer plane                                    | ·                                      |
| b) Horizontal plane                                  |  |
| c) Plumb line  |  |
| d) Base  |  |
| d) base  |  |
| 10. A level with a magnetic base may be attached     | ed to cast iron soil and steel pine.   |
| a) Transit   |  |
| b) Torpedo   |  |
| c) Digital   |  |
| d) Sensor  |  |
| d) bottoo  |  |
|  |  |
| 11. A 6-in-1 screw driver is equipped with           |  |
| a) Straight bits                                     |  |
| b) Philips bits                                      |  |
| c) Nut drivers                                       |  |
| d) All of the above                                  |  |
|  |  |
| 12. A is an assembly for holding pipe in place dur   | ring cutting, threading, or grooving   |
| operations.  | (N)                                    |
| a) Pipe vise   |  |
| b) Grip vise   |  |
| c) Chain grip  | Dr. G. Balakrishnan, M.E., Ph.D.,      |
| d) Slip joint  | Principal M.E., Ph.D.,                 |



# Indra Ganesan COLLEGE OF ENGINEERING Medical Main Board (NH 45P) Medical days Trucking post 18 620 042



Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDellti & Affiliated to Anna University, Classical NAAC Accredited, 2(F) Status Institution by UGC

13. Reciprocating saw blades ad=re available for cutting \_\_\_\_\_.

| a) wood   |
|---|
| b) Metal  |
| c) Pipe   |
| d) All of the above   |
| 14. A saw is a handsaw used to cut openings in relatively thin materials.         |
| a) Hack   |
| b) Keyhole  |
| d) Portable band  |
| d) Band   |
| 15. The following provides a smooth means of disengagement and engagement between |
| the engine and the remainder of transmission system.                              |
| a) Clutch   |
| b) Gearbox  |
| c) Propeller shaft  |
| d) Differential   |
| 16. A machine member used to connect engine shaft to gear box is called           |
| a) Differential   |
| b) Clutch   |
| c) Flywheel   |
| d) Propeller shaft  |
| 17. The clutch plate is hold in between and pressure plate.                       |
| a) Flywheel   |
| b) Gear box   |
| c) Engine   |
| d) Crankshaft   |
| 18. The coefficient of friction for the clutch facing is approximately            |
|   |
| a) 0.1  |
| b) 0.4  |
| c) 0.8  |
| d)1.2 5.  |
|   |

19. Which type of clutch does not require clutch pedal?

- a) Single plate
- b) Multi plate
- c) Centrifugal
- d) Cone

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chermal NAAC Assendited, 2(F) Status Institution by UGC

### 20. The following is not a Friction clutch

- a) Clutch
- b) Centrifugal clutch
- c) Cone clutch
- d) Disc clutch

### 21. The following is known as positive clutch

- a) Single plate clutch
- b) Cone clutch
- c) Dog clutch
- d) Centrifugal clutch

### 22. The following type of arrangement is used in synchromesh type gear box

- a) Single plate clutch
- b) Fluid clutch
- c) Dog clutch
- d) Semi-centrifugal clutch

### 23. Brake lining is mounted on

- a) Wheel cylinder
- b) Master cylinder
- c) Brake drum
- d) Brake shoe

### 24. In a two stroke scooter, engine the cylinder is lubricated

- a) Mixing lubricating oil in the fuel
- b) Lubrication plug
- c) Splash lubrication
- d) Pressure lubrication

### 25. Automobiles gears are generally made of

- a) Alloy steel
- b) Brass
- c) Cast iron
- d) Stainless steel

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal





Madural Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemial NAAC Accredited, 2(F) Status Institution by UGC

### Value Added Course

### "Basic of electrical, plumbing & two wheeler mechanism"

### ANSWER KEY

| 1 | С | 6  | c | 11 | d | 16 | ь | 21 | С |
|---|---|----|---|----|---|----|---|----|---|
| 2 | b | 7  | b | 12 | a | 17 | a | 22 | С |
| 3 | a | 8  | d | 13 | d | 18 | b | 23 | d |
| 4 | b | 9  | c | 14 | b | 19 | С | 24 | b |
| 5 | d | 10 | b | 15 | a | 20 | a | 25 | a |

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

fox.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

madhanlumar.p

Year/Sem: I

I/I

**AU Register Number:** 

811221104017

### Value Added Course

"Basic of electrical, plumbing & two wheeler mechanism"

**MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)** 



- 1. Which of the following elements of electrical engineering cannot be analyzed using Ohm's law?
  - a) Capacitors
  - b) Inductors
  - (c) Transistors
  - d) Resistance
- 2. What is constant for a charged spherical shell according to basic electrical energy?
  - a) Electrical potential outside the spherical shell
  - (b) Electrical potential inside the spherical shell
  - c) Electrical field outside the spherical shell
  - d) Electrical field inside the spherical shell
- 3. Which of the following according to fundaments of electrical energy is correct about alternating current?
- a) Frequency is zero
- b) Magnitude changes with time
- c) Can be transported to larger distances with less loss in power
- d) Flows in both directions
- 4. What will be the direction of the drift velocity of electrons change with respect to the electric field?
- a) same as that of electric field
- b) opposite to that of electric field
- c) perpendicular to that of the electric field in a positive direction
- d) perpendicular to that of the electric field in a negative direction
- 5. What is zero for a charged spherical shell?
  - a) Electrical potential outside the spherical shell
- b) Electrical potential inside the spherical shell
- c) Electrical field outside the spherical shell
- d) Electrical field inside the spherical shell

2

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arms University, Clemnal NAAC Accredited, 2(F) Status Institution by UGC

| a) Vector quantity   | 11?   |
|--|---|
| b) Tensor quantity   |   |
| © Scalar quantity  |   |
| d) Dimensionless quantity  |   |
| 7. Which of the following will happen in a transturns is less than the number of primary turns a) The voltage gets stepped up  (b) The voltage gets stepped down (c) The power gets stepped up (d) The power gets stepped down | sformer when the number of secondary        |
| 8. A is a measuring tape consisting of a long  | g, continuous steel strip that is graduated |
| in standard increments.  |   |
| a) Coil  |   |
| b) Reel c) Blade lock  |   |
| d) Steel tape  |   |
| (A) The same   |   |
| 9. A plumb bob is a cone shaped metal weight fa  | astened to a string that is used to         |
| establish a true   |   |
| a) Transfer plane  |   |
| b) Horizontal plane c) Plumb line  |   |
| d) Base  |   |
| d) Daso  |   |
| 10. A level with a magnetic base may be at   | tached to cast iron soil and steel pipe.    |
| a) Transit   |   |
| (b) Torpedo  |   |
| c) Digital   |   |
| d) Sensor  |   |
|  |   |
| 11. A 6-in-1 screw driver is equipped with .   |   |
| a) Straight bits   |   |
| b) Philips bits  |   |
| c) Nut drivers   |   |
| d) All of the above  |   |
| 12. A is an assembly for holding pipe in plac  | e during cutting threading or grooving      |
| operations.  | e during cutting, threading, or grooving    |
| a) Pipe vise   |   |
| b) Grip vise   |   |
| c) Chain grip  |   |
| d) Slip joint  | <b>Dr. G. Balakrishnan, M.E.,</b> Ph.D      |





Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

### 20. The following is not a Friction clutch

- a) Clutch
- b) Centrifugal clutch
- c) Cone clutch
- d) Disc clutch



### 21. The following is known as positive clutch

- a) Single plate clutch
- (b) Cone clutch
- c) Dog clutch
- d) Centrifugal clutch



### 22. The following type of arrangement is used in synchromesh type gear box

- a) Single plate clutch
- b) Fluid clutch
- c) Dog clutch
- d) Semi-centrifugal clutch

### 23. Brake lining is mounted on

- a) Wheel cylinder
- (b) Master cylinder
- c) Brake drum
- d) Brake shoe



### 24. In a two stroke scooter, engine the cylinder is lubricated

- a) Mixing lubricating oil in the fuel
- b) Lubrication plug
- c) Splash lubrication
- d) Pressure lubrication

### 25. Automobiles gears are generally made of

- a) Alloy steel
- b) Brass
- c) Cast iron
- d) Stainless steel

 $\langle$ 

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student: **AU Register Number:**  Year/Sem:

Value Added Course on "Preparation of Payroll for an Organisation"

### MCO OTTECTIONS (25V4 - 100 Manles)

| MICO OUESTIONS (25X4 =                                    | 100 Marks)                             |
|---|--|
| 1) Bank advice letter send to                             |  |
| A.Employee  |  |
| B .Normal Bank a/c  |  |
| C .Master Bank  | (0)                                    |
| D .None of the above                                      |  |
| 2) LWP stands for   | Og /                                   |
| A.Labour Work Policy                                      | Dr. G. Balakrishnan, M.E., Ph.D.       |
| B .Labour Welfare Policy                                  | Principal                              |
| C .Leave Without Pay                                      | Indra Ganesan College of Engineering   |
| D .None of the above                                      | IG Valley, Madurai Main Road           |
| 3) In Payslip to create holiday we have to create         | first Manikandam, Trichy-620 012.      |
| A.Employee  |  |
| B.Location  |  |
| C .Emolument  |  |
| D .All the above  |  |
| 4) There aresalary components by default in Pa            | ryslip.                                |
| A.10  |  |
| B .14   |  |
| C .20   |  |
| D .9  |  |
| 5) If the house of the employee is situated at Chennai th | e HRA isof the salary.                 |
| A.40%   |  |
| B .45%  |  |
| C .50%  |  |
| D .20%  |  |
| 6) There aretypes of leave in Payroll.                    |  |
| A. 3  |  |
| B .2  |  |
| C .4  |  |
| D.1   |  |
| 7) At the time of deduction of tax at source, surcharge a | nd cess, is added in which             |
| of thefollowing cases ?                                   | •                                      |
| A) Where the resident assessee receives any income in the | nature of salary                       |
| B) Where the recipient is an Indian company               | •                                      |
| C) Both (A) and (B)                                       |  |
| D) Neither (A) nor (B)                                    |  |
| 8) Any person responsible for paying salaries shall be re | equired to deduct tax at source at the |
|   |  |
| A) Time of credit of account of employee                  |  |
| D) Time of nextment                                       |  |

B) Time of payment

C) (A) or (B), whichever is earlier

D)None of the above









C) Power Mortgage Corporation Ltd. 54EC Capital Gains Bond

D) All of the above

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Dr. G. Bałakrishnan, M.E., Ph.D.,





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

### 16) Which of the following labour legislations is implemented only by the **CentralImplementation Machinery?**

- A) Employees' State Insurance Act
- B)Maternity Benefit Act
- C)Industrial Disputes Act
- D)Trade Unions Act

## 17) Under Section 2(12) the Act is applicable to non-seasonal factories employing-

18) Manoj receives salary for the year 2014-15. He resides at Rajkot. The data for salary is given below:

| Particular                               | Amount (annual data) |
|--|----------------------|
| Basic                                    | 2,00,000             |
| DA (included as per terms of employment) | 1,00,000             |
| Bonus                                    | 50,000               |
| House rent allowance (HRA)               | 24,000 (2,000 P.M.)  |
| Rent paid during the year                | 36,000 (3,000 P.M.)  |

Calculate HRA exemption.

A)8000

B)9000

C)6000

D)10000

19) The Payment of Gratuity Act was introduced in the year

A)1961

B)1923

C)1972

D)1976

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Dr. G. Balakrishnan, M.E., Ph.D.

20) Which of the following benefits is covered under social security schemes?

- A) Medical facilities
- B)Retirement benefits
- C)Compensation facilities
- D) All of the above
- 21) Under Half pay leave, The leave shall be credited to the said leave account at the rate of days for each completed calendar month of service?
- A) 5/3 days
- B)  $2\frac{1}{2}$  days
- C) 3 days
- D) 41/2 days
- 22) Under which of the following circumstances, credit to be afforded to leave account of a Govt. Servant at the commencement of the next half-year be reduced by 1/10th of the period of such leave?

A)extraordinary leave

- B)dies non
- C)Both A and B
- D) None of the above



### OLLEGE OF ENGINEERING

Madural Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelht & Affiliated to Arma University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



- 23) Commuted leave not exceeding half the amount of half pay leave due may be granted to aGovernment Servant on production of?
- A) Medical Records
- B) medical certificate
- C) SR-1 leave application
- D)Application in a white paper
- 24) Rule 30 of CCS(Leave) Rules,1972 mention about which kind of leave?
- A)Earned Leave
- B) Half pay leave
- C) Casual Leave
- D) Commuted Leave
- 25) The maximum earned leave that may be granted at a time to any Government servantemployed in India is?
- A) 60 days
- B) 120 days
- C) 180 days
- D) 360 days

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 



Time of payment

D)None of the above

C) (A) or (B), whichever is earlier

## Indra Ganesan

### COLLEGE OF ENGINEERING





Name of the Student: Nandliga 12 AU Register Number: 8112 2063 102

Year/Sem: II\_MBA

Value Added Course on "Preparation of Payroll for an Organisation"

| MCO OUESTIONS (25X4 = 100 Marks)   |
|--|
| 1) Bank advice letter send to  |
| A.Employee   |
| B.Normal Bank a/c  |
| Master Bank  |
| D. None of the above   |
| 2) LWP stands for  |
| A.Labour Work Policy   |
| B. Labour Welfare Policy   |
| CLeave Without Pay   |
| D. None of the above   |
| 3) In Payslip to create holiday we have to createfirst   |
| A.Employee   |
| (B).Location   |
| C .Emolument   |
| D .All the above   |
| 4) There aresalary components by default in Payslip.   |
| A.10   |
| <b>B</b> 14  |
| C.20   |
| D.9  |
| 5) If the house of the employee is situated at Chennai the HRA isof the salary.                |
| A.TU/0   |
| B.45%  |
| <b>©</b> .50%  |
| D.20%  |
| 6) There aretypes of leave in Payroll.   |
| A. 3   |
|  |
| U.4  |
| D.1  |
| 7) At the time of deduction of tax at source, surcharge and cess, is added in which            |
| of the following cases ?   |
| Where the resident assessee receives any income in the nature of salary                        |
| b) where the recipient is an Indian company  |
| C) Both (A) and (B)  |
| D) Neither (A) nor (B)   |
| 8) Any person responsible for paying salaries shall be required to deduct tax at source at the |
| A) Time of credit of account of employee   |







| 9) Any employer, who has provided non-monetary perquisites, is  | deduct tax                           |
|---|--------------------------------------|
| atsource at the time of payment.  |                                      |
| A) Mandatorily required to  |                                      |
| Having an option to   |                                      |
| C) (A) or (B), whichever is earlier   |                                      |
| D) None of the above  |                                      |
| 10) The proof obtained by an employer, from an employee in respect of                                       | f deduction can                      |
| be inrespect of   |                                      |
| A) Prescribed claims  |                                      |
| B) Set off of loss  |                                      |
| (D) Both (A) and (B) (D) Noither (A) nor (B)  |                                      |
| D) Neither (A) nor (B)  11) From the following details coloulets the TDS which about 1 to 1 to 1.           |                                      |
| 11) From the following details, calculate the TDS which should be dedu                                      | icted by HBL India                   |
| fromsalary of one of its employees:   |                                      |
| • Salary – Rs. 7,00,000   | L' LOTTO                             |
| • Income from other sources declared by the employee $-$ Rs. 1,00,000 on will Rs. 30,000 has been deducted. | nich IDS amounting                   |
| A) 52,500   |                                      |
|   |                                      |
| <b>B</b> 54,600   |                                      |
| C) 42,500   |                                      |
| D) 45,400   |                                      |
| 12) A is an employee of ITC Limited. He is required to furnish evidence                                     | e of tax                             |
| deductionclaimed by him into ITC Limited.   |                                      |
| A) Form No. 12B   |                                      |
| Form No 12BA  |                                      |
| C) Form No. 10E   |                                      |
| D) None of the above  |                                      |
| 13) Mr. Sunil withdraws Rs. 400,000 from his Recognised Provident Fu  | ınd after                            |
| completion of service of 3 years. However, he does not provide, his PAN                                     | N number. The                        |
| amount of TDS on suchpayment would be   |                                      |
| (A) Rs. 120,000   |                                      |
| B) Rs. 80,000   |                                      |
| C) Nil  | P                                    |
| D) Rs. 40,000   | Dr. G. Balakrishnan, M.E., Ph.D      |
| 14) Interest on securities would attract TDS under Section 193 @  | - Principal                          |
| A) 5%   | Indra Ganesan College of Engineering |
| <b>B</b> 10%  | IG Valley, Madurai Main Road         |
| C) 20%  | Manikandam, Trichy-620 01            |
| D) None of the above  | 1.5 6 1.7                            |
| 15) Which of the following securities of the Central Government are lial of taxat source u/s 193?           | ble for deduction                    |
|   |                                      |
| A Interest on securities beneficially owned by an insurance company   |                                      |
| B) Indian Railway Finance Corporation Limited 54ED Capital Gains Bond                                       |                                      |
| C) Power Mortgage Corporation Ltd. 54EC Capital Gains Bond D) All of the above                              |                                      |
| 2) I H OI W GUUYE   |                                      |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(f) Status fastitution by UGC



### 16) Which of the following labour legislations is implemented only by the CentralImplementation Machinery?

- Employees' State Insurance Act
- B)Maternity Benefit Act
- C)Industrial Disputes Act
- D)Trade Unions Act
- 17) Under Section 2(12) the Act is applicable to non-seasonal factories employingpersons

18) Manoj receives salary for the year 2014-15. He resides at Rajkot. The data for salary is givenbelow:

| Amount (annual data) |
|----------------------|
| 2,00,000             |
| 1,00,000             |
| 50,000               |
| 24,000 (2,000 P.M.)  |
| 36,000 (3,000 P.M.)  |
|                      |

Calculate HRA exemption.

£38000

B)9000

**(2)**6000

D)10000

19) The Payment of Gratuity Act was introduced in the year

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

A)1961 B)1923

**C**11972

D)1976

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

- 20) Which of the following benefits is covered under social security schemes?
- A) Medical facilities
- B)Retirement benefits
- C)Compensation facilities
- All of the above
- 21) Under Half pay leave, The leave shall be credited to the said leave account at the rate of \_days for each completed calendar month of service?

A) 5/3 days

8)21/2 days

C)3 days

D) 41/2 days

22) Under which of the following circumstances, credit to be afforded to leave account of a Govt. Servant at the commencement of the next half-year be reduced by 1/10th of the period of such leave?

A)extraordinary leave

B)dies non

(C)Both A and B

D)None of the above



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellni & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status fastitution by UGC



- 23) Commuted leave not exceeding half the amount of half pay leave due may be granted to aGovernment Servant on production of?
- A) Medical Records
- B medical certificate
- C) SR-1 leave application
- D)Application in a white paper
- 24) Rule 30 of CCS(Leave) Rules,1972 mention about which kind of leave?
- A)Earned Leave
  - (B) Half pay leave
  - C) Casual Leave
  - D)Commuted Leave
  - 25) The maximum earned leave that may be granted at a time to any Government servantemployed in India is?
  - A) 60 days
  - B) 120 days
  - (2)180 days
  - D) 360 days

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Time of payment

D)None of the above

C) (A) or (B), whichever is earlier

## Indra Ganesan

## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemai NAAC Accredited, 2(E) Status Eastitation by UGC



Name of the Student: TEYARANI.T

AU Register Number: 811220631012.

Year/Sem: II\_MBA

Value Added Course on "Preparation of Payroll for an Organisation"

| MCO OUESTIONS (25X4 = 100 Mar  | ke)   |
|--|---|
| 1) Bank advice letter send to  | 101   |
| A.Employee   |   |
| B. Normal Bank a/c   |   |
| Master Bank  |   |
| D. None of the above   |   |
| 2) LWP stands for  | Dr G Ralakvich  |
| A.Labour Work Policy   | Dr. G. Balakrishnan, M.E., Ph.D.,                                 |
| B. Labour Welfare Policy   | Principal   |
| Leave Without Pay  | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |
| D. None of the above   | Manikandam, Trichy-620 012.                                       |
| 3) In Payslip to create holiday we have to createfirst                                       | 1110 119-19-19-19-19-19-19-19-19-19-19-19-19-                     |
| A.Employee first   |   |
| (B) Location   |   |
| C.Emolument  |   |
| D .All the above   |   |
| 4) There aresalary components by default in Payslip.   |   |
| A.10   |   |
| <b>B</b> .14   |   |
| Č .20  |   |
| D .9   |   |
| 5) If the house of the employee is situated at Chennai the HRA is                            | .64   |
|  | or the salary.  |
| (B).45%  |   |
| C.50%  |   |
| D .20%   |   |
| 6) There aretypes of leave in Payroll.   |   |
| A. 3   |   |
| <b>B</b> -2  |   |
| C .4   |   |
| D.1  |   |
| 7) At the time of deduction of tax at source   |   |
| 7) At the time of deduction of tax at source, surcharge and cess, is of the following cases? | added in which  |
| Where the resident assessee receives any income in the nature of sa                          | _   |
| B) Where the recipient is an Indian company  | lary  |
| C) Both (A) and (B)  |   |
| D) Neither (A) nor (B)   |   |
| 8) Any person responsible for paying solories at all 1                                       |   |
| 8) Any person responsible for paying salaries shall be required to d                         | leduct tax at source at the                                       |
| A) Time of credit of account of employee   |   |
| The state of account of employee   |   |



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Athilased to Arma University, Chennal
NAAC Accredited, 2(F) Status fastitution by UGC



9) Any employer, who has provided non-monetary perquisites, is deduct tax atsource at the time of payment. A) Mandatorily required to (B) Having an option to C) (A) or (B), whichever is earlier D) None of the above 10) The proof obtained by an employer, from an employee in respect of deduction can be inrespect of (A) Prescribed claims B) Set off of loss C) Both (A) and (B) D) Neither (A) nor (B) 11) From the following details, calculate the TDS which should be deducted by HBL India fromsalary of one of its employees: • Salary – Rs. 7,00,000 • Income from other sources declared by the employee - Rs. 1,00,000 on which TDS amounting Rs. 30,000 has been deducted. A) 52,500 BY 54,600 C) 42,500 D) 45,400 12) A is an employee of ITC Limited. He is required to furnish evidence of tax deductionclaimed by him in\_to ITC Limited. Dr. G. Balak nan, M.E., Ph.D., A) Form No. 12B Principal B) Form No 12BA Indra Ganesan College of Engineering C) Form No. 10E IG Valley, Madurai Main Road D) None of the above Manikandam, Trichy-620 012. 13) Mr. Sunil withdraws Rs. 400,000 from his Recognised Provident Fund after completion of service of 3 years. However, he does not provide, his PAN number. The amount of TDS on suchpayment would be AT Rs. 120,000 B) Rs. 80,000 C) Nil D) Rs. 40,000 14) Interest on securities would attract TDS under Section 193 @ \_ A) 5% B)10% C) 20% D) None of the above 15) Which of the following securities of the Central Government are liable for deduction of taxat source u/s 193? A) Interest on securities beneficially owned by an insurance company B) Indian Railway Finance Corporation Limited 54ED Capital Gains Bond Power Mortgage Corporation Ltd. 54EC Capital Gains Bond D) All of the above



### COLLEGE OF ENGINEERING





16) Which of the following labour legislations is implemented only by the Central Implementation Machinery?

Amployees' State Insurance Act

Maternity Benefit Act

C)Industrial Disputes Act

D)Trade Unions Act

17) Under Section 2(12) the Act is applicable to non-seasonal factories employingpersons

18) Manoj receives salary for the year 2014-15. He resides at Rajkot. The data for salary is

| Particular                               |                      |
|--|----------------------|
| Basic                                    | Amount (annual data) |
|  | 2,00,000             |
| DA (included as per terms of employment) | 1,00,000             |
| Bonus                                    | 50,000               |
| House rent allowance (HRA)               | 24,000 (2,000 P.M.)  |
| Rent paid during the year                |                      |
| Calculate HRA everytion                  | 36,000 (3,000 P.M.)  |

Calculate HRA exemption.

A)8000

B)9000

**(2)**6000

D)10000

19) The Payment of Gratuity Act was introduced in the year Dr. G. Balakrishnan, M.E., Ph.D., A)1961

Principal

B)1923 C 1972

D)1976

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

20) Which of the following benefits is covered under social security schemes?

(A) Medical facilities

B)Retirement benefits

C)Compensation facilities

D) All of the above

21) Under Half pay leave, The leave shall be credited to the said leave account at the rate of days for each completed calendar month of service?

(AN)5/3 days

B) 2½ days

C) 3 days

D) 41/2 days

22) Under which of the following circumstances, credit to be afforded to leave account of a Govt. Servant at the commencement of the next half-year be reduced by 1/10th of the period of such leave?

A)extraordinary leave

B)dies non

(C) Both A and B

D) None of the above



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnat NAAC Accredited, 2(E) Status Institution by UGC



- 23) Commuted leave not exceeding half the amount of half pay leave due may be granted to aGovernment Servant on production of?
- A) Medical Records
- B)medical certificate
- C) SR-1 leave application
- D)Application in a white paper
- 24) Rule 30 of CCS(Leave) Rules,1972 mention about which kind of leave?
- A)Earned Leave
- B) Half pay leave
- C) Casual Leave
- (Commuted Leave
- 25) The maximum earned leave that may be granted at a time to any Government servantemployed in India is?
- A) 60 days
- B) 120 days
- (C) 180 days
- D) 360 days

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemiai NAAC Accredited, 2(F) Status Institution by EGC

Value Added Course on "Preparation of Payroll for an Organisation"

### **ANSWER KEY**

| 1 | С | 6  | В | 11 | В | 16 | A | 21 | A |
|---|---|----|---|----|---|----|---|----|---|
| 2 | С | 7  | A | 12 | Α | 17 | A | 22 | С |
| 3 | В | 8  | В | 13 | A | 18 | С | 23 | В |
| 4 | В | 9  | В | 14 | В | 19 | C | 24 | D |
| 5 | С | 10 | C | 15 | A | 20 | D | 25 | С |

Dr. G. Balakrishnan, M.E., Ph.D.,





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemial NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "STAAD.PRO"

### **MULTIPLE CHOICE QUESTIONS (25X1=25 MARKS)**

- 1. Which of the following structural loads are not applied commonly to a building?
  - a) Environmental load
  - b) Live load
  - c) Dead load
  - d) Rain load
- 2. Which of the following is statically determinate structure?
  - a) Two hinged arch
  - b) Fixed beam
  - c) Double overhanging
  - d) Continuous beam

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering

3. Which of the following material is not used in making trusses: Main Read 1. Material have Manikandam, Trichy-629 012.

- a) Metal bars
- b) Concrete
- c) Wooden struts
- d) Channel
- 4. Why base plate is provided in short roof trusses?
  - a) For rigidity
  - b) As provision for temperature related expansion/contraction
  - c) To transmit load effectively
  - d) For stability
- 5. Which of the following is false for deflection of a point nearby a fixed support?
  - a) Displacement and slope is zero
  - b) Displacement as well as slope is non-zero
  - c) Displacement is zero
  - d) Slope is zero
- 6. Which structure will perform better during earthquake?
  - a) Statically determinate and indeterminate
  - b) Depends upon magnitude of earthquake
  - c) Statically indeterminate
  - d) Statically determinate



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelni & Affiliated to Anna University, Chemai NAAC Accredited, 2(F) Status Institution by UGC



- 7. . Which type of structure would cost less in terms of materials?
  - a) Statically indeterminate
  - b) Both will cost equally
  - c) Depends upon loading
  - d) Statically determinate

| 8. | Which o | of the following is | carried by truss m | embers? |
|----|---------|---------------------|--------------------|---------|
|----|---------|---------------------|--------------------|---------|

- a) flexural load
- b) bending load
- c) axial load
- d) shear load

| 3.     |      | and the same of the same of |        | a was 1 | D1. D |
|--------|------|-----------------------------|--------|---------|-------|
| Dr. G. | Bala | krishn                      | ian, I | M.E.,   | Pn.D. |

Principal

| 9. | When a structural member of the uniform section is subjected to a moment at       |
|----|---|
|    | one end only, then the moment required so as to rotate that end to produce a unit |
|    | slope, is called  |

- a) Stiffness of member
- b) Capacity of member
- c) Potential of member
- d) Resistance of member
- 10. If in an interior beam, adjacent structures are exactly similar then the tributary area is:
  - a) Obtuse triangle
  - b) Right angled triangle
  - c) Acute triangle
  - d) Trapezium
- 11. Which of the following methods for solving indeterminate structures are easiest for computational purposes?
  - a) Displacement method
  - b) Method of consistent deformation
  - c) Moment area method
  - d) Force method
- 12. Which of the following methods of structural analysis is a force method?
  - a) three moment equation
  - b) slope deflection method
  - c) column analogy method
  - d) moment distribution method
- 13. Force-displacement requirement of statically indeterminate structures depend upon which factor?
  - a) supports
  - b) material's response
  - c) position of load applied
  - d) magnitude of load applied



SULLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



- 14. To draw qualitative ILD of indeterminate structure, which of the following concept is used.
  - a) MullersBreslou's Principle
  - b) Kani's Method
  - c) Unit Load Method
  - d) Castigilano's First energy theorem
- 15. Which of the following material will have the highest value of response modification factor?
  - a) Structural steel frames
  - b) Reinforced concrete shear walls
  - c) Wood
  - d) Reinforced concrete frames with flexible joints
- 16. Live loads, with time can vary in:
  - a) Magnitude
  - b) Position
  - c) Neither position nor magnitude
  - d) Position as well as magnitude

Dr. G. Balakrishnan, M.E., Ph.D.

- 17. Most of the loads applied to a building are environmental load. State whether this statement is true or false.
  - a) True
  - b) False
- 18. Building codes require the partition load to be considered even without partition if live load is less than
  - a) 60 psf
  - b) 70 psf
  - c) 80 psf
  - d) 90 psf
- 19. In the method used to establish the magnitude of live load, what is the reference time period?
  - a) 30 years
  - b) 35 years
  - c) 50 years
  - d) 60 years
- 20. Impact load results from which type of effects of loads applied?
  - a) Static
  - b) Dynamic
  - c) Static and dynamic
  - d) Neither static nor dynamic



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Appaoved by AICTE, NewDelhi & Affiliated to Arma University, Chemial NAAC Accredited, 2(F) Status Institution by UGC



- 21. How an increase in the pitch of the roof does affects the amount of load that can be placed on it?
  - a) It increases
  - b) It decreases
  - c) Remains constant
  - d) Depends upon case
- 22. Which type of drainage system will collect the rainwater?
  - a) Primary
  - b) Secondary
  - c) Tertiary
  - d) Primary and tertiary
- 23. In which of the following cases is ASCE procedure not applied?
  - a) Enclosed structure
  - b) Regular shape grid
  - c) High rise structure
  - d) Roof with 60 ft. height
- 24. For the validity of principle of superposition, materials should behave in whichmanner?
  - a) linear-elastic
  - b) non-linear-elastic
  - c) Non-linear-inelastic
  - d) Linear- inelastic
- 25. If in a planar system, only 2 reaction forces are acting, then the system is:
  - a) Essentially unstable
  - b) Essentially stable
  - c) Can't say
  - d) None of the mentioned

(D):

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-628 012.







Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

### Value Added Course on "STAAD.PRO"

### **ANSWER KEY**

| 1 | d | 6  | c | 11 | a | 16 | d | 21 | b |
|---|---|----|---|----|---|----|---|----|---|
| 2 | d | 7  | a | 12 | С | 17 | b | 22 | a |
| 3 | b | 8  | С | 13 | ь | 18 | С | 23 | c |
| 4 | ь | 9  | a | 14 | a | 19 | С | 24 | d |
| 5 | ь | 10 | b | 15 | a | 20 | ь | 25 | a |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Amm University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student : Sachakar . R

AU Register Number: \$11220103041

Year/Sem: 1 Lean

Value Added Course on "STAAD.PRO"

### MULTIPLE CHOICE QUESTIONS (25X1=25 MARKS)

- 1. Which of the following structural loads are not applied commonly to a building?
  - a) Environmental load
  - b) Live load
  - c) Dead load
  - (I) Rain load
- 2. Which of the following is statically determinate structure?
  - a) Two hinged arch
  - b) Fixed beam
  - c) Double overhanging
  - (d) Continuous beam

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Medural Main Road

Which of the following material is not used in making trusses? Indam, Trichy-620 012.

- a) Metal bars
- b) Concrete
- (c) Wooden struts
- d) Channel
- 4. Why base plate is provided in short roof trusses?
  - a) For rigidity
  - (b) As provision for temperature related expansion/contraction
  - (c) To transmit load effectively
  - d) For stability
- 5. Which of the following is false for deflection of a point nearby a fixed support?
  - a) Displacement and slope is zero
  - (b)Displacement as well as slope is non-zero
  - c) Displacement is zero
  - d) Slope is zero
- 6. Which structure will perform better during earthquake?
  - a) Statically determinate and indeterminate
  - .b) Depends upon magnitude of earthquake
  - Statically indeterminate
  - d) Statically determinate



d) magnitude of load applied

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Apparoved by AICTE, NewDelthi & Affiliated to Atma University, Chennal
NAAC Accredited, 2(F) Status Institution by UGC



| 7 Which type of structure would cost less in terms of    | of materials?                        |
|--|--------------------------------------|
| (A) Statically indeterminate                             |                                      |
| b) Both will cost equally                                | . 0                                  |
| c) Depends upon loading                                  |                                      |
| d) Statically determinate                                | Clar                                 |
| 8. Which of the following is carried by truss members    | s? Dr. G. Balakrishnan, M.E., Ph.D., |
| a) flexural load   | Principal **                         |
| b) bending load  | Indra Ganesan College of Engineering |
| axial load   | IG Valley, Medic, 30 Main Road       |
| d) shear load  | Manikandom, Turiny-620 012.          |
| 9. When a structural member of the uniform section is    | is subjected to a moment at          |
| one end only, then the moment required so as to ro       | tate that end to produce a unit      |
| slope, is called   |                                      |
| Stiffness of member                                      |                                      |
| b) Capacity of member                                    |                                      |
| c) Potential of member                                   |                                      |
| d) Resistance of member                                  |                                      |
| 10. If in an interior beam, adjacent structures are exac | tly similar then the tributary       |
| area is:-  |                                      |
| a) Obtuse triangle                                       |                                      |
| b) Right angled triangle                                 |                                      |
| Acute triangle   |                                      |
| d) Trapezium   |                                      |
| 11. Which of the following methods for solving indeterm  | minate structures are easiest        |
| for computational purposes?                              |                                      |
| (a) Displacement method                                  |                                      |
| b) Method of consistent deformation                      |                                      |
| c) Moment area method                                    |                                      |
| d) Force method  |                                      |
| 12. Which of the following methods of structural analys  | sis is a force method?               |
| a) three moment equation                                 |                                      |
| b) slope deflection method                               |                                      |
| column analogy method                                    |                                      |
| d) moment distribution method                            |                                      |
| 13. Force-displacement requirement of statically indete  | rminate structures depend            |
| upon which factor?                                       |                                      |
| a) supports  |                                      |
| b material's response                                    |                                      |
| c) position of load applied                              |                                      |







Dr. G. Balakrishnan, M.E., Ph.D.,

14. To draw qualitative ILD of indeterminate structure, which of the following

- a) MullersBreslou's Principle
- (b)Kani's Method
- c) Unit Load Method
- d) Castigilano's First energy theorem
- 15. Which of the following material will have the highest value of response modification factor?
  - (a) Structural steel frames
  - b) Reinforced concrete shear walls
  - c) Wood
  - d) Reinforced concrete frames with flexible joints
- 16. Live loads, with time can vary in:
  - a) Magnitude
  - b) Position
  - c) Neither position nor magnitude
  - (d) Position as well as magnitude

Indra Ganesan College of Engineering IG Valley, Meducal Main Road Manikandam, Trichy-620 012 17. Most of the loads applied to a building are environmental load. State whether this statement is true or false. a) True

- (b) False
- 18. Building codes require the partition load to be considered even without partition a) 60 psf

  - b) 70 psf
  - (c)) 80 psf
  - d)\90 psf
- 19. In the method used to establish the magnitude of live load, what is the reference
  - a) 30 years
  - b) 35 years
  - (e)) 50 years
  - d) 60 years
- 20. Impact load results from which type of effects of loads applied?

  - (b) Dynamic
  - c) Static and dynamic
  - d) Neither static nor dynamic



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemai NAAC Accredited, 2(F) Status Institution by UGC



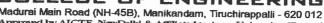
- 21. How an increase in the pitch of the roof does affects the amount of load that can be placed on it?
  - a) It increases
  - (b) It decreases
  - c) Remains constant
  - d) Depends upon case
- 22. Which type of drainage system will collect the rainwater?
  - (a) Primary
  - b) Secondar
  - c) Tertiary
  - d) Primary and tertiary
- 23. In which of the following cases is ASCE procedure not applied?
  - a) Enclosed structure
  - b) Regular shape grid
  - (c) High rise structure
  - d) Roof with 60 ft. height
- 24. For the validity of principle of superposition, materials should behave in whichmanner?
  - a) linear-elastic
  - b) non-linear-elastic
  - c) Non-linear/inelastic
  - (d) Linear-inelastic
- 25. If in a planar system, only 2 reaction forces are acting, then the system is:-
  - (a) Essentially unstable
  - b) Essentially stable
  - c) Can't say
  - d) None of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



## OF



tweed by AICTE, NewDellii & Affiliated to Arma University, Chemai NAAC Accredited, 2(F) Status Institution by UGC



Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Generan College of Engineering

IG Valley Main Read

Name of the Student:

Year/Sem: ill /civil

**AU Register Number:** 

Value Added Course on "STAAD.PRO"

### **MULTIPLE CHOICE QUESTIONS (25X1=25 MARKS)**

- 1. Which of the following structural loads are not applied commonly to a building?
  - a) Environmental load
  - b) Live load
  - (c) Dead load
  - d) Rain load
- 2. Which of the following is statically determinate structure?
  - a) Two hinged arch
  - b) Fixed beam
  - (c) Double overhanging
  - d) Continuous beam
- 3. Which of the following material is not used in making trusses?
  - a) Metal bars
  - b) Concrete
  - (c) Wooden struts
  - d) Channel
- 4. Why base plate is provided in short roof trusses?

a) For rigidity

Manikandam, Trichy-620 012. b) As provision for temperature related expansion/contraction

transmit load effectively

d) For stability

- 5. Which of the following is false for deflection of a point nearby a fixed support?
  - a) Displacement and slope is zero
  - b) Displacement as well as slope is non-zero
  - (i) Displacement is zero
  - d) Slope is zero
- 6. Which structure will perform better during earthquake?
  - (a) Statically determinate and indeterminate
  - b) Depends upon magnitude of earthquake
  - () Statically indeterminate
  - d) Statically determinate
- 7. . Which type of structure would cost less in terms of materials?
  - a) Statically indeterminate



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Ama University, Chemial NAAC Accredited, 2(F) Status Institution by UGC



- Both will cost equally
- e Depends upon loading
- d) Statically determinate
- 8. Which of the following is carried by truss members?
  - a) flexural load
  - b) bending load
  - (c) axial load
  - d) shear load
- 9. When a structural member of the uniform section is subjected to a moment at one end only, then the moment required so as to rotate that end to produce a unit slope, is called \_\_\_\_\_
  - (a) Stiffness of member
  - b) Capacity of member
  - c) Potential of member
  - d) Resistance of member
- 10. If in an interior beam, adjacent structures are exactly similar then the tributary area is:
  - a) Obtuse triangle
  - (b) Right angled triangle
  - c) Acute triangle
  - d) Trapezium
- 11. Which of the following methods for solving indeterminate structures are easiest for computational purposes?
  - (a) Displacement method
  - b) Method of consistent deformation
  - c) Moment area method
  - d) Force method
- 12. Which of the following methods of structural analysis is a force method?
  - a) three moment equation
  - b) slope deflection method
  - c) column analogy method
  - d) moment distribution method
- 13. Force-displacement requirement of statically indeterminate structures depend upon which factor?
  - a) supports
  - b) material's response
  - c) position of load applied
  - d) magnitude of load applied

Q:

Dr. G. Balakrishnan, M.E., Ph.D.,

Princi ---

J

Indra Ganesan College of Eng-IG Valley, Madurar Main Manikandan, Trichy-A



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Read

Manikandam, Trichy-628 012.

| 14. | To draw qualitative | ILD of indeterminate structure, | which | of the | following |
|-----|---------------------|---------------------------------|-------|--------|-----------|
|     | concept is used.    |                                 |       |        |           |

- ((a)) Mullers Breslou's Principle
- b) Kani's Method
- c) Unit Load Method
- d) Castigilano's First energy theorem

### 15. Which of the following material will have the highest value of response modification factor?

- (a) Structural steel frames
- b) Reinforced concrete shear walls
- c) Wood
- d) Reinforced concrete frames with flexible joints

### 16. Live loads, with time can vary in:-

- a) Magnitude
- b) Position
- Neither position nor magnitude
- (d) Position as well as magnitude

17. Most of the loads applied to a building are environmental load. State whether this statement is true or false.

- a) True
- b))False
- 18. Building codes require the partition load to be considered even without partition if live load is less than
  - a) 60 psf
  - 70 psf
  - 80 psf
  - d) 90 psf
- 19. In the method used to establish the magnitude of live load, what is the reference time period?
  - a) 30 years
  - 35 years
  - 50 years
  - d) 60 years
- 20. Impact load results from which type of effects of loads applied?
  - a) Statie
  - b) Dynamic
  - c) Static and dynamic
  - d) Neither static nor dynamic



### OLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



- 21. How an increase in the pitch of the roof does affects the amount of load that can be placed on it?
  - a) It increases
  - (b) It decreases
  - c) Remains constant
  - d) Depends upon case
- 22. Which type of drainage system will collect the rainwater?
  - (a) Primary
  - b) Secondary
  - c) Tertiary
  - d) Primary and tertiary
- 23. In which of the following cases is ASCE procedure not applied?
  - a) Enclosed structure
  - b) Regular shape grid
  - (c) High rise structure
  - d) Roof with 60 ft. height
- 24. For the validity of principle of superposition, materials should behave in whichmanner?
  - a) linear-elastic
  - b) non-linear-elastic
  - c) Non-linear- inelastic
  - (d) Linear inelastic
- 25. If in a planar system, only 2 reaction forces are acting, then the system is:-
  - (a) Essentially unstable
  - b) Essentially stable
  - c) Can't say
  - d) None of the mentioned

(D:

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 912.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chennal NAAC Accredited, 2(F) Status Institution by UCC



Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Name of the Student: Mahenowan. M

Year/Sem: IV - CEVEL

**AU Register Number:** 

8112181 03002

Value Added Course on "STAAD.PRO"

### **MULTIPLE CHOICE QUESTIONS (25X1=25 MARKS)**

- 1. Which of the following structural loads are not applied commonly to a building?
  - a) Environmental load
  - b) Live load
  - c) Dead load
  - d)Rain load
- 2. Which of the following is statically determinate structure?
  - a) Two hinged arch
  - b) Fixed beam
  - c) Double overhanging
  - d) Continuous beam
- 3. Which of the following material is not used in making trusses?
  - a) Metal bars
  - (b) Concrete
  - c) Wooden struts
  - d) Channel
- 4. Why base plate is provided in short roof trusses?
  - a) For rigidity
  - (b) As provision for temperature related expansion/contraction
  - c) To transmit load effectively
  - d) For stability
- 5. Which of the following is false for deflection of a point nearby a fixed support?
  - a) Displacement and slope is zero
  - (b) Displacement as well as slope is non-zero
  - c) Displacement is zero
  - d) Slope is zero
- 6. Which structure will perform better during earthquake?
  - a) Statically determinate and indeterminate
  - b) Depends upon magnitude of earthquake
  - © Statically indeterminate
  - d) Statically determinate
- 7. . Which type of structure would cost less in terms of materials?
  - (a) Statically indeterminate



#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC



- b) Both will cost equally
- c) Depends upon loading
- d) Statically determinate
- 8. Which of the following is carried by truss members?
  - a) flexural load
  - b) bending load
  - c) axial load.
- shear load
- 9. When a structural member of the uniform section is subjected to a moment at one end only, then the moment required so as to rotate that end to produce a unit slope, is called
  - a) Stiffness of member
  - (b) Capacity of member
  - c) Potential of member
  - d) Resistance of member
- 10. If in an interior beam, adjacent structures are exactly similar then the tributary area is:
  - a) Obtuse triangle
  - (b) Right angled triangle
  - c) Acute triangle
  - d) Trapezium
- 11. Which of the following methods for solving indeterminate structures are easiest for computational purposes?
  - (a)Displacement method
  - b) Method of consistent deformation
  - c) Moment area method
  - d) Force method
- 12. Which of the following methods of structural analysis is a force method?
  - a) three moment equation
  - b) slope deflection method
  - (c)column analogy method
  - d) moment distribution method
- 13. Force-displacement requirement of statically indeterminate structures depend upon which factor?
  - a) supports
  - b) material's response
  - c) position of load applied
  - d) magnitude of load applied

ਰਾ. G. Balakrishnan, M.F. ਐਮ.ਹ

Princip.

IG Valley, Madurain Road Manikandamichye628 812



#### COLLEGE OF ENGINEERING





14. To draw qualitative ILD of indeterminate structure, which of the following concept is used.

- (a) Mullers Breslou's Principle
- b) Kani's Method
- c) Unit Load Method
- d) Castigilano's First energy theorem
- 15. Which of the following material will have the highest value of response modification factor?
  - (a) Structural steel frames
  - b) Reinforced concrete shear walls
  - c) Wood
  - d) Reinforced concrete frames with flexible joints
- 16 Live loads, with time can vary in:
  - a) Magnitude
  - b) Position
  - Neither position nor magnitude
  - d) Position as well as magnitude

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

17. Most of the loads applied to a building are environmental load.

State whether this statement is true or false.

- (a))True
- b) False
- 18. Building codes require the partition load to be considered even without partition if live load is less than
  - a) 60 psf
  - b) 70 psf
  - (E)\80 psf
  - d) 90 psf
- 19. In the method used to establish the magnitude of live load, what is the reference time period?
  - a) 30 years
  - b) 35 years
  - (i) 50 years
  - d) 60 years
- 20. Impact load results from which type of effects of loads applied?
  - a) Static
  - b) Dynamic
  - Static and dynamic
  - d) Neither static nor dynamic



#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemosi
NAAC Accredited, 2(F) Status Institution by UGC



- 21. How an increase in the pitch of the roof does affects the amount of load that can be placed on it?
  - a) It increases
  - (b) It decreases
  - c) Remains constant
  - d) Depends upon case
- 22. Which type of drainage system will collect the rainwater?
  - (a) Primary
  - b) Secondary
  - c) Tertiary
  - d) Primary and tertiary
- 23. In which of the following cases is ASCE procedure not applied?
  - a) Enclosed structure
  - b) Regular shape grid
  - (c) High rise structure
  - d) Roof with 60 ft. height
- 24. For the validity of principle of superposition, materials should behave in whichmanner?
  - a) linear-elastic
  - b) non-linear-elastic
  - ,c) Non-linear- inelastic
  - (d) Linear- inelastic
- 25. If in a planar system, only 2 reaction forces are acting, then the system is:-
  - Essentially unstable
  - b) Essentially stable
  - c) Can't say
  - d) None of the mentioned

(D:-

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Vailey, Madurai Main Road
Manikandam, Trichy-620 012.



### COLLEGE OF ENGINEERING





## **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Even Semester

| Name of the Student :  | Year/Sem:                   |
|--|-----------------------------|
| AU Register Number:  |                             |
| Value Added C  | ourse on "Django Framework" |
| MCQ QUE  | STIONS (25X4 = 100 Marks)   |
| A. low-level B. mid-level C. high-level D. None of the above   | Python web framework.       |
| 2. Which of the following are  | e Advantages of Django?     |
| <ul><li>A. Object-Relational Mappin</li><li>B. Multilingual Suppo</li><li>C. Administration GUI</li><li>D. Framework Support</li></ul> | g Support                   |
| A. MVI B. MVP C. MVC D. MVZ  4. MVC pattern is based on A. 2 B. 3 C. 4   |                             |

5. MVT Stands for?

D. 5

- A. Model-View-Template
- B. Model-View-Table
- C. Map-View-Template
- D. Main-View-Template

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



#### COLLEGE OF ENGINEERING





Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

## **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Even Semester

| 6. View response can be the ?   |                                 |
|---|---------------------------------|
| A. HTML contents  |                                 |
| B. 404 error  |                                 |
| C. XML document   |                                 |
| D. All of the above   |                                 |
| 7. Render function takes paramet  | ers.                            |
| A. 1  |                                 |
| B. 2  |                                 |
| C. 3  |                                 |
| D. 4  |                                 |
| 8. A variable in django looks like this:                                      | 0                               |
| A. ((variable))   |                                 |
| B. {{variable}}   |                                 |
| C. [[variable]]   |                                 |
| D. [{variable}]   | D: 0                            |
| 9. How many kinds of HTTP requests there in                                   | Django?                         |
| A. 2  |                                 |
| B. 3  |                                 |
| C. 4  |                                 |
| D. 5  | in a Alba 1 5 manaism           |
| <ol> <li>Django Comments framework is deprecated.</li> <li>A. TRUE</li> </ol> | , since the 1.5 version.        |
| B. FALS   |                                 |
| C. Can be true or false   |                                 |
|   |                                 |
| D. Can not say  |                                 |
| 11. Django is a Python-based  |                                 |
| A. web framework  |                                 |
| B. video creating tool  |                                 |
| C. analysis tool  |                                 |
| D. desktop development platform   |                                 |
| 12. In Django QuertSet, which method is used to                               | get the specified column?       |
| A column values()   |                                 |
| A. column_values() B. columnvalues()  | (0)                             |
| ~   |                                 |
| C. values_list() D. column_list()   |                                 |
| D. Column_nst()   | Dr. G. Balaktishnan, M.E. Ph.D. |



ING 620 012 Chennai

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

## **Department of Computer Science & Engineering**

#### Academic Year 2021-2022 - Even Semester

### 13. What does MTV stand for in Django?

- A. model-template-views
- B. make-test-views
- C. model-template-verify
- D. mobile-template-verification

#### 14. Which command is used to create the first project in Django?

- A. django-admin startproject project name
- B. django-admin startapp project name
- C. django-admin create project name
- D. django-admin createproject project name

### 15. By default, Django configuration uses which database?

- A. MySQL
- B. SQLite
- C. Oracle
- D. None of the above

#### 16. Which command is used to create an app in Django?

- A. py admin.py startapp-c app name
- B. py manage.py startapp app name
- C. py manage.py djangoapp app name
- D. py manage.py createapp app name

# 17. Which is the correct command to start the Django development server on your system?

- A. py manage.py localhost
- B. py manage.py runatserver
- C. py manage.py createserver
- D. py manage.py runserver

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



#### COLLEGE OF ENGINEERING





## **Department of Computer Science & Engineering**

#### Academic Year 2021-2022 - Even Semester

| 18. | Which | file | is | not | a | part | of | the | Djang | 9 | project | content? | , |
|-----|-------|------|----|-----|---|------|----|-----|-------|---|---------|----------|---|
|-----|-------|------|----|-----|---|------|----|-----|-------|---|---------|----------|---|

- A. settings.py
- B. manage.py
- C. templates.py
- D. py manage.py runserver

### 19. Django is written in which language?

- A. C++
- B. Python
- C. AngularJS
- D. Asp.Net

# 20. Which Django functions are used to take http requests and return http responses?

- A. Django views
- B. Django request() and response()
- C. Diango templates
- D. Both A and B

### 21. In Django, data is created in \_\_\_\_.

- A. tables
- B. views
- C. templates
- D. objects

#### 22. In Django, data is created in objects, what are these objects called .

- A. models
- B. views
- C. templates
- D. database

### 23. Which command is used to create a Python shell?

- A. run shell
- B. py manage.py shell
- C. run py manage.py shell
- D. py manage.py djangoshell

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

# **Department of Computer Science & Engineering**

### Academic Year 2021-2022 - Even Semester

- 24. Which Django file contains all the configuration of your Django installation?
  - A. main.py
  - B. setting.py
  - C. djangosetting.py
  - D. settings.py
- 25. Which Django template tag is used to return the first not empty variable?
  - A. empty
  - B. firstempty
  - C. firstemptyvar
  - D. firstof

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesari Concige of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



# Department of Computer Science & Engineering

Academic Year 2021-2022 - Even Semester

### Value Added Course

## Django Framework

#### **ANSWER KEY**

| 1 | C | 6  | D | 11 | A | 16 | В | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | D | 7  | С | 12 | C | 17 | D | 22 | A |
| 3 | C | 8  | В | 13 | A | 18 | C | 23 | В |
| 4 | В | 9  | A | 14 | A | 19 | В | 24 | D |
| 5 | A | 10 | A | 15 | В | 20 | A | 25 | D |

VACA oordinator

(D)

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Medurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Athillated to Anna University, Cheunai NAAC Accredited, 2(F) Status Institution by UGC



## Department of Computer Science & Engineering

### Academic Year 2021-2022 - Even Semester

| Name of the Student: hpps wil. D | Name of the Student: | APPAS AU. D | 21 | Year/Sem: iii/iv |
|----------------------------------|----------------------|-------------|----|------------------|
|----------------------------------|----------------------|-------------|----|------------------|

AU Register Number: Su220104004

Value Added Course on "Django Framework"

| MCQ QUESTIONS (25X4 = 100 Marks)                    |  |
|---|--|
| l. Django is a Python web framework.                |  |
| A. low-level  |  |
| B. mid-level  |  |
| C/Mgh-level   |  |
| D. None of the above                                |  |
| 2. Which of the following are Advantages of Django? |  |
| A. Object-Relational Mapping Support                |  |
| B. Multilingual Suppo                               |  |
| C. Administration GUI                               |  |
| D. Framework Support                                |  |
|   |  |
| 3. Django supports the pattern.                     |  |
| A. MVI  |  |
| B. MVP  |  |
| CAME  |  |
| D. MVZ  |  |
| 4. MVC pattern is based on components.              |  |
| A. 2  |  |
| B. 3  |  |
| C. 4  |  |
| D. 5  |  |
| 5. MVT Stands for?                                  |  |
| A Model-View-Template                               |  |
|   |  |

- B. Model-View-Table
- C. Man-View-Template
- D. Main-View-Template

Dr. G. Balakrishnan, M.E., Ph.O., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



# COLLEGE OF ENGINEERING





IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

# **Department of Computer Science & Engineering**

# Academic Year 2021-2022 – Even Semester

| 6. View response can be the?  A. HTML contents  B. 404 error  C. XML document  D. All of the above  7. Render function takes parameters.  A. 1 |
|--|
| B. 404 error C. XML document D. All of the above 7. Render function takes parameters.  |
| C. XML document D. All of the above 7. Render function takes parameters.   |
| D. All of the above 7. Render function takes parameters.   |
| 7. Render function takes parameters.   |
|  |
|  |
|  |
| B. 2   |
| C. 3   |
| D. 4   |
| 8. A variable in django looks like this:   |
| A. ((variable))  |
| B. {{variable}}  |
| C. [[variable]]  |
| D. [{variable}]  |
| 9. How many kinds of HTTP requests there in Django?  |
| A. 2   |
| B. 3   |
| C. 4   |
| D. 5   |
| 10. Django Comments framework is deprecated, since the 1.5 version.  |
| A. TRUE  |
| B. FALS  |
| C. Can be true or false  |
| D. Can not say   |
| `11. Django is a Python-based  |
| 1.6  |
| A. web framework   |
| B. video creating tool   |
| C. analysis tool   |
| D. desktop development platform  12. In Django QuertSet, which method is used to get the specified column?                                     |
| 12. In Django QuertSet, which method is used to get the special  |
| A. column_values()   |
| B. columnvalues()  |
| C. values_list()  Dr. G. Balakrishnan, M.E., Ph.D.,  |
| D. column_list()  Principal  |
| Indra Ganesan College of Engineering   |





Madurai Main Road (NH-45B), Manikandam, Tiruchirappeili - 620 012 Approved by AICTE, NewDeltri & Affiliated to Arma University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

## **Department of Computer Science & Engineering**

#### Academic Year 2021-2022 - Even Semester

#### 13. What does MTV stand for in Django?

- A model-template-views
- B. make-test-views
- C. model-template-verify
- 1). mobile-template-verification

### 14. Which command is used to create the first project in Django?

- A django-admin startproject project\_name
- B. django-admin startapp project\_name
- C. django-admin create project\_name
- D. django-admin createproject project\_name

### 15. By default, Django configuration uses which database?

- A. MySQL
- B-SOLine
- C. Oracle
- D. None of the above

#### 16. Which command is used to create an app in Django?

- A. py admin.py startapp-c app\_name
- By py manage.py startapp app\_name
- C. py manage.py djangoapp app name
- D. by manage.py createapp app name

# 17. Which is the correct command to start the Django development server on your system?

- A. py manage.py localhost
- B py manage.py runatserver
- C. py manage.py createserver
- D py manage.py runserver

(D:

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



# Department of Computer Science & Engineering

Academic Year 2021-2022 - Even Semester

- 24. Which Django file contains all the configuration of your Django installation?
  - A. main.py
  - B. setting.py
  - C. djangesetting.py
  - Settings.py
- 25. Which Django template tag is used to return the first not empty variable?
  - A. empty
  - B. lirstemply
  - C. firstemplyvar
  - A firstof

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 01 E.



D. Main-View-Template

# Indra Ganesan

#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellin & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



## Department of Computer Science & Engineering

Academic Year 2021-2022 - Even Semester

| Name of the Student: Joshi Dayana. K. AU Register Number: 811218104011                                | Year/Sem:  V/VIII |
|---|-------------------|
| AU Register Number: 811218104011  |                   |
| Value Added Course on "Django Framework   | " [ 195 ]         |
| MCQ QUESTIONS (25X4 = 100 Marks)  | (21/2             |
| 1. Django is a Python web framework.  8. low-level  8. mid-level  C. high-level  D. None of the above |                   |
| 2. Which of the following are Advantages of Django?   |                   |
| A. Object-Relational Mapping Support  B. Multilingual Suppo  C. Administration GUI  Framework Support |                   |
| 3. Django supports the pattern.  A. NVI B. MVP  MVC D. MVZ  |                   |
| 4. MVC pattern is based on components.  |                   |
| C. 4 D. 5 5. MVT Stands for?  | <b>.</b>          |
| Model-View-Template  B. Model-View-Table  C. Map-View-Template  |                   |

Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012







IG Valley, Madurai Main Road Manikandam, Trichy-620 012

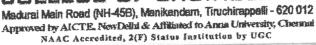
# Department of Computer Science & Engineering

# Academic Year 2021-2022 – Even Semester

| 6. View response can be the ?            |  |
|--|--|
| A. HTML contents                         |  |
| B. 404 error                             |  |
| CAML document                            |  |
| D All of the above                       |  |
| 7. Render function takes p               | arameters.   |
| A. 1                                     |  |
| B. 2                                     |  |
| C. 3                                     |  |
| D Ø                                      |  |
| 8. A variable in django looks like this: | Section was a section of the section |
| A. ((variable))                          |  |
| B (variable)}                            |  |
| C. [[variable]]                          |  |
| D [[variable]]                           |  |
| 9. How many kinds of HTTP requests the   | iere in Django?  |
| A_2\                                     |  |
| B. 3                                     |  |
| C. #                                     |  |
| D. 5                                     |  |
| 10. Django Comments framework is dep     | recated, since the 1.5 version.  |
| B. FALS                                  |  |
| C. Can be true or false                  |  |
| D. Can not say                           |  |
| 11. Django is a Python-based             |  |
| A. web framework                         |  |
| B. video creating tool                   |  |
| Canalysis tool                           |  |
| D. desktop development platform          | or I always 9  |
| 12. In Django QuertSet, which method i   | s used to get the specified column:  |
| /  |  |
| A. column values()                       | 1 CB   |
| B. columivalues()                        |  |
| C_values_list()                          | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| D. column_list()                         | Principal  |
| 1  | Indra Ganesan College of Engineering   |



## COLLEGE OF ENGINEERING





# Department of Computer Science & Engineering

## Academic Year 2021-2022 - Even Semester

- 13. What does MTV stand for in Django?
  - @model-template-views
  - B. make-test-views
  - C. model-template-verify
  - D. mobile-template-verification
- 14. Which command is used to create the first project in Django?
  - Adjango-admin startproject project\_name
  - B. django-admin startapp project\_name
    - C. django-admin create project\_name
    - D. django-admin createproject project\_name
- 15. By default, Django configuration uses which database?

A. MySQL

- C. Oracle
- D. None of the above
- 16. Which command is used to create an app in Django?

A. py admin.py startapp-c app\_name manage.py startapp app\_name

. py mandge.py djangoapp app\_name

D. py manage.py createapp app\_name

17. Which is the correct command to start the Django development server on your system?

A. py manage.py localhost

B. py manage.py runatseryer

C. py manage.py createserver

py manage.py runserver

(D)

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



# COLLEGE OF ENGINEERING





# Department of Computer Science & Engineering

# Academic Year 2021-2022 - Even Semester

| 18. Which file is not a part of the Django p   | roject content?                  |
|--|----------------------------------|
| A. settings.py   |                                  |
| B. manage.py   |                                  |
| Cremplates.py  |                                  |
| O. py manage.py runserver  |                                  |
| 19. Django is written in which language?   |                                  |
| A. C++   |                                  |
| Renthon  |                                  |
| C. AngularJS   |                                  |
| D. Asp.Net  20. Which Django functions are used to tal   | ke http requests and return http |
| responses?   |                                  |
| A. Django views  B. Django request() and response()  C. Django templates  D. Both A and B  21. In Django, data is created in |                                  |
| A. tables B. views Complates D. objects  22. In Django, data is created in objects, v  | what are these objects called    |
| Models W. views C. templates D. database  23. Which command is used to create a Py   | thon shell?                      |
| A run shell  |                                  |
| A run shell  |                                  |

By py manage.py shell

C. run py manage.py shell

D. py manage.py djangoshell

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDellil & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



# Department of Computer Science & Engineering

Academic Year 2021-2022 - Even Semester

- 24. Which Django file contains all the configuration of your Django installation?
  - A. main.py
  - B. setting.py
  - C. djangosetting.py
  - Desettings.py
- 25. Which Django template tag is used to return the first not empty variable?
  - A. empty
  - B. firstempty
  - C. firstemptyvar
  - D. firstof

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



# COLLEGE OF ENGINEERING



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012
Approved by AICTE, NovDelhi & Arithmed to Anna University, Chemisis
NAAC Accredited, 3(F) States Sautitation by UCC

Name of the Student:

Year/Sem:

Manikandam, Trichy-620 012.

AU Register Number:

9)

# Value Added Course

"Automation using PLC and SCADA"

|          | MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)                          |   |                                    |  |                        |  |  |  |  |
|----------|--|---|------------------------------------|--|------------------------|--|--|--|--|
| 1)       | Which is the first   |   |                                    |  |                        |  |  |  |  |
|          | 1. PLC 086   | 2.PLC 085                               | 3.PLC 084                          | 4.None                                 |                        |  |  |  |  |
| 2) 1     | How many operat  | ion steps does t                        | he programma                       | ıble logic controller l                | 707V-9                 |  |  |  |  |
|          |  |   | . 6                                | and robic continuiti I                 | iave /                 |  |  |  |  |
|          | l. Two   | 2.One                                   | 3.Four                             |  |                        |  |  |  |  |
| 3) I     | n PLC operation  | ch                                      | ecks the statu                     | s at the input side                    |                        |  |  |  |  |
| 1        | . Program scan   | 2.Output scan                           | 3.Input scan                       | 4.None                                 |                        |  |  |  |  |
| 4) T     | 4) The components that make PLC works can be divided into core areas |   |                                    |  |                        |  |  |  |  |
| 1.       |  |   |                                    | ###################################### | core areas             |  |  |  |  |
| 1.       | 1 WO   | 2.One                                   | 3.Four                             | 4.Three                                |                        |  |  |  |  |
| 5) In    | 5) In PLC operation retrieves the data into an output module         |   |                                    |  |                        |  |  |  |  |
| 1.       | 1. Output scan 2.Input sca   |   |                                    | 3.Program scan                         | 4.None of the above    |  |  |  |  |
| 6) Be    | 6) Before PLC's was created many industries used                     |   |                                    |  |                        |  |  |  |  |
| 1.       |  |   |                                    |  |                        |  |  |  |  |
| 7) Wh    | at are the types o   | f programmabl                           | e logic control                    | lers?                                  |                        |  |  |  |  |
| 1.<br>3. | Modular, uniform P   |   | 2.Fixed and Mo<br>4.None of the al |  |                        |  |  |  |  |
| 8) Who   | o invented the Pro   | grammable Lo                            | gic Controller                     | (PLC)?                                 |                        |  |  |  |  |
| 1.       |  |   |                                    | (-25).                                 | 10.1                   |  |  |  |  |
| 3.       | Thomas Davenpor  | 2.Jonas Wenstrom rt 4.None of the above |                                    | D                                      |                        |  |  |  |  |
|          | Thomas Davenpo   | 4.None of                               | t the above                        |  |                        |  |  |  |  |
| 9) In n  | odular programi  | nable logic cont                        | troller                            | Dr. G. Balal                           | krishnan, M.E., Ph.D., |  |  |  |  |
| 1.       | Output is fixed<br>All of above                                      | 2.Input is 4.None of                    | fixed                              | Indra Ganesan                          | College of Engineering |  |  |  |  |



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Tiruchirappatil - 620 012 Approved by AICTE, New Deltal & Affiliated to Auma University, Chermai NAAC Acceptified, 2(F) States Institution by UGC



| 1      | 10) C(  | CTV cameras is      | an example         | for   | autom    | ation   |
|--------|---------|---------------------|--------------------|---|----------|---|
|        | 1.      | Office automati     | on                 | 2 Onland  | <b>,</b> |   |
|        | 3.      | Industrial autor    |                    | 2.Scientif  |          |   |
|        |         |                     |                    | 4.Building  | g autom  | nation  |
| 1      | 1) The  | e PLC's can be      | orogramme          | l in  |          |   |
|        | 1.      | Instruction list, I | Functional bl      | ock diagram   | 2        | Ladder logic statute to                         |
|        | 3.      | Sequential function | tion chart         |   | 4.       | Ladder logic, structured text All of the above  |
| 12     | l) The  | programmable        | logic contro       | llers are used  | in       |   |
|        | 1.      | Cement manufac      | turino             | 2 Dans and  |          |   |
|        | 3.      | Glass and paper i   | ndustrv            | 2.Process a   | utomati  | ion plants                                      |
|        |         |                     |                    |   | above    |   |
| 13)    | The:    | sequences are cl    | assified into      | т 2000 година от напримення били породина и под |          |   |
|        | 1. (    | One 2.              | Two                | 3.Three   | 4.F      | <sup>7</sup> our                                |
| 14)    | In me   | odular type PLC     | the PLC's          | are classified  | into     |   |
|        |         |                     |                    | - VARISTY EIGH  | INTO     | ***************************************         |
|        |         | ransistor output I  | LC                 | 2.Relay outp  |          | ,   |
| 2      | . 1     | riac output PLC     |                    | 4.All of the a  | bove     |   |
| 15)    | In fixe | ed programmab       | le logic cont      | roller  | ***      |   |
| 1.     | . Oı    | utput is fixed      | 2 Input            | ie fivad  |          |   |
| 3.     | . N     | one of the above    | 4.All of           |   |          |   |
| 16) T  | The ad  | vantages of PLO     | Care               |   |          |   |
| 1.     |         | liability is high   |                    |   |          |   |
| 2,     |         | all in size         |                    |   |          | 0   |
| 3.     |         | y maintenance       |                    |   |          |   |
| 4.     |         | of the above        |                    |   |          |   |
|        |         |                     |                    |   |          | Dr. G. Balakrishnan, M.E., Ph.D.,               |
| 17) TI | he visi | ual programmin      | g language :       | also called as  |          | Principal  Indra Ganesan College of Engineering |
| 1.     | Lade    | der logic           | 2.Relay l          | agio  |          | IG Valley, Madurai Main Road                    |
| 2.     |         | of the above        | 4.Control          |   |          | Manikandam, Trichy-620 012.                     |
| 18) Th | e PLC   | internally oper     |                    | -   | es the v | value in  |
| 1.     |         | mal format          |                    |   |          |   |
| 3.     |         | y format            | 2.Octal for 4.None | rmat  |          |   |
|        |         | *                   | THUME              |   |          |   |



# COLLEGE OF ENGINEE



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Debt & Affiliated to Ama University, Ch RAAC Accredited, 2(V) Status Institution by UCC

# 19 What are the components that make the programmable logic controller work?

1. Power supply

Input and output module

4. All of the above

20) The control in SCADA is

1. Online control

2. Direct control

3. Supervisory control

4. Automatic control

21) When did the SCADA start?

1.1980s

2. 1990s

3. 1970s

4.1960s

22) Which of the following is an example of the SCADA system?

1. Emerson Delta V

2. Honeywell Plant Scape

3. Yokogawa CENTUM

4. Power Studio Deluxe

23) How many levels are present in a complex SCADA system?

1. 3 - Levels

2. 5 - Levels

3.4 - Levels

4.6 - Levels

24) Which of the following is the heart of a SCADA system?

1. PLC

2. HMI

3. Alarm task

4. I/O task

25) Which of the following is not the component of a SCADA system?

1. Database server

2. I/O system

3.PLC controller

4. Sparger controller

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





Madural Main Road (NH-45B), Manikandam, Tituchirappalii - 620 012
Approved by AICTE, NovDellii & Affiliated to Aima University, Classical NAAC Accedited, 2(E) Status Eastisston by UGC

# Value Added Course

# Automation using PLC and SCADA"

### ANSWER KEY

| 1 | 3     | 6  | 2 | 11 | 2 | 16 | 4 | 21 | 4 |
|---|-------|----|---|----|---|----|---|----|---|
| 2 | 4     | 7  | 2 | 12 | 4 | 17 | 1 | 22 | 4 |
| 3 | 3     | 8  | 1 | 13 | 3 | 18 | 3 | 23 | 3 |
| 4 | 3     | 9  | 3 | 14 | 4 | 19 | 4 | 24 | 4 |
| 5 | quand | 10 | 1 | 15 | 4 | 20 | 3 | 25 | Δ |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. VACCoordinator



9) In modular programmable logic controller \_

2.Input is fixed

4. None of above

Output is fixed

All of above

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chermai NAAC Accredited, 2(F) Status Institution by UGC



IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

|  | A F TACK         | e mechanica, v(r) 3            | exten inscitution by tic  | ic us x   |
|--|------------------|--------------------------------|---|---|
| Name of the Student: AU Register Number:                 | Divya<br>: 81122 | bharath<br>0105300             | i<br>,<br>o   | Year/Sem: 1 / 1                                       |
|  | $\mathbf{v}$     | alue Adde                      | ed Course   |   |
|  |                  |                                | LC and SCAD   | A" [19]   |
| <u>M</u>   |                  |                                | TIONS (25X1 = 25X1 = | ///   |
| 1) Which is the first Pl                                 |                  |                                |   |   |
| 1. PLC 086   | 2.PLC 085        | 13PLC 084                      | 4.None  |   |
| 2) How many operatio                                     | n steps does     | the programma                  | ble logic controlle   | r have?   |
| 1. Two   | 2.One            | Four                           | 4.Three   |   |
| 3) In PLC operation _                                    | с                | hecks the status               | s at the input side   |   |
| 1. Program scan  |                  | _                              |   |   |
| 4) The components tha                                    | it make PLC      | works can be d                 | livided into  | core areas  |
|  | 2.One            | $\sim$                         | 4.Three   |   |
| 5) In PLC operation                                      | r                | etrieves the data              | a into an output m  | odule   |
| Output scan  | 2.Inpi           | ut scan                        | 3.Program scan  | 4.None of the above                                   |
| 6) Before PLC's was cre                                  | eated many i     | ndustries used _               |   |   |
| 1. Capacitors  | Relays           | 3.Resistors                    | 4. None of the abo  | ove   |
| 7) What are the types of                                 | programma        | ble logic contro               | llers?  |   |
| 1. Modular, uniform Fixed, uniform Pl                    |                  | 2.Fixed and M<br>4.None of the |   |   |
| 8) Who invented the Pro                                  | grammable ]      | Logic Controlle                | r (PLC)?  |   |
| <ol> <li>Dick Morley</li> <li>Thomas Davenpor</li> </ol> |                  | s Wenstrom<br>e of the above   |   | Balakrishnan, M.E., Ph.D.  Principal  Ganesan Call    |
| ) In modular programm                                    | nable logic c    | ontroller                      | IG  | Ganesan College of Engineering Valley, Madural Main 2 |



# Indra Ganesan COLLEGE OF ENGINEERING



COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai
NAAC Accredited, 2(F) Status Institution by UGC

| 10) CO         | CTV cameras is an exa   | mple for                          | _ automation  |
|----------------|---|-----------------------------------|---|
| 3.             | Office automation Industrial automation                             |                                   | ific automation ng automation   |
| 11) Th         | e PLC's can be progra   | ammed in                          |   |
| 1.<br>3.       | Instruction list, Functi<br>Sequential function of                  | _                                 | (2.Dadder logic, structured text<br>4.All of the above  |
| 12) Th         | e programmable logic  | controllers are us                | ed in   |
| 1.<br>3.       | Cement manufacturing<br>Glass and paper indust                      |                                   | s automation plants<br>the above  |
| 13) Th         | e sequences are classif   | ied into                          | ec  |
| 1.             | One Otwo  | 3.Three                           | 4.Four  |
| 14) In         | modular type PLC, th  | e PLC's are classi                | ñed into  |
| 1.             | Transistor output PLC Triac output PLC                              | 2.Relay of the 4.All of the       | _   |
| 15) In 1       | fixed programmable lo   | ogic controller                   |   |
| 1.<br>3.       | Output is fixed None of the above                                   | 2.Input is fixed (4) All of above | 18:   |
| 16) The        | e advantages of PLC a   | re                                | 1 Car   |
| 1.<br>2.<br>3. | Reliability is high Small in size Easy maintenance All of the above |                                   | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 17) The        | e visual programming  | language also calle               | ed as   |
| 2.             | )<br>/Ladder logic<br>All of the above                              | Relay logic     Controller logic  |   |
| 18) <b>The</b> | PLC internally opera  | tes, stores, and ca               | culates the value in  |
| 1.             | Decimal format<br>Binary format                                     | 2.Octal format<br>4.None          |   |



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDeltri & Affiliated to Anna University, Chennal NAAC Accretited, 2(F) Status Institution by UCC



# 19 What are the components that make the programmable logic controller work?

| <ol> <li>Power suppl</li> </ol> | ly               | 2.0             | CPU             |
|---------------------------------|------------------|-----------------|-----------------|
| 3. Input and ou                 | itput module     | (A)             | Il of the above |
| 20) The control in S            | SCADA is         |                 |                 |
| 1. Online control               |                  | 2. Direct co    | ntrol           |
| 3. Supervisory contro           | lc               | 4. Automati     | c control       |
| 21) When did the So             | CADA start?      |                 |                 |
| 1.1980s                         | 2. 1990s         | 3. 1970s        | (4)1960s        |
| 22) Which of the following      | lowing is an ex  | ample of the SC | CADA system?    |
| 1. Emerson De                   | elta V           | 2. Honeywe      | II Plant Scape  |
| 3. Yokogawa                     | CENTUM           | Power Stu       | idio Deluxe     |
| 23) How many level              | ls are present i | n a complex SC  | ADA system?     |
| <b>1.</b> 3 – Levels            | 2. 5             | - Levels        |                 |
| 3. 4 – Levels                   | A.S.             | Levels          |                 |
| 24) Which of the fol            | lowing is the h  | eart of a SCAD  | A system?       |
| 1. PLC                          | 2. HMI           | Alarm task      |                 |
| 25) Which of the follo          | owing is not th  | e component of  | a SCADA system? |
| 1. Database s                   | server           | 2. I/O syste    |                 |
| 3.PLC contro                    | oller            | A Sparger of    | controller      |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemical
NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student: So Mahanalass

Year/Sem: II / V/

AU Register Number: 811220105023

# Value Added Course

| "Automation using PLC and SCADA" |  |               |                             |              |   |  |
|----------------------------------|--|---------------|-----------------------------|--------------|---|--|
|                                  | <b>MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)</b> |               |                             |              |   |  |
| 1) W                             | hich is the first P                                | PLC model?    |                             |              |   |  |
|                                  |  |               | . 6                         |              |   |  |
| 1.                               | PLC 086  | 2.PLC 085     | (3)PLC 084                  | 4.None       |   |  |
| 2) Ho                            | ow many operation                                  | on steps does | the programma               | ble logic co | ntroller have?                                  |  |
| 1.                               | Two  | 2.One         | Four                        | 4.Three      |   |  |
| 3) In                            | PLC operation                                      |               | checks the status           | s at the inn | nt side   |  |
|                                  |  |               | Acres 1                     |              |   |  |
| 1.                               | Program scan                                       | 2.Output sca  | n Anput scan                | 4.None       |   |  |
| 4) Th                            | e components th                                    | at make PLC   | works can be d              | lividad into | core areas                                      |  |
| ,                                | ,  |               | Works can be d              | itvided Into | core areas                                      |  |
| 1.                               | Two  | 2.One         | 3.Four                      | 4.Three      |   |  |
| 5) In 1                          | PLC operation _                                    | r             | etrieves the data           | a into an ou | tput module                                     |  |
| i (Í                             | Output scan  | 2.Inp         | out scan                    | 3.Program    | n scan 4.None of the above                      |  |
| 6) Bef                           | ore PLC's was c                                    | reated many   | industries used             |              |   |  |
|                                  |  | _/            |                             |              |   |  |
| 1.                               | Capacitors (                                       | 2.Relays      | 3.Resistors                 | 4.None of    | f the above                                     |  |
| 7) Wh                            | at are the types o                                 | of programm   | able logic contro           | ollers?      |   |  |
| 1                                | Modular unifor                                     | m DI C        | 2.Fixed and M               | (~ 4-1 DI C  | · ·/  |  |
| 000                              | Fixed, uniform I                                   |               | 4. None of the              |              |   |  |
|                                  |  |               | THE OF ME                   | 40010        |   |  |
| 3) Wh                            | o invented the Pr                                  | rogrammable   | Logic Controlle             | er (PLC)?    | Dr. G. Balakrishnan, M.E., Ph.D.,               |  |
| M                                | Dick Morley  | 2 I.a.        | TIT- was                    |              | Principal  Indra Ganesan College of Engineering |  |
| 3.                               | Thomas Davenp                                      |               | as Wenstrom as of the above |              | IG Valley, Madurai Main Road                    |  |
| - •                              |  | 1.11101       | to or time above            |              | Manikandam, Trichy-620 012.                     |  |
| ) In r                           | nodular progran                                    | amable logic  | controller                  | _            |   |  |
| 1                                | Output is fixed                                    | <b>3</b> I    | 4 1 C 1                     |              |   |  |
| -85)                             | All of above                                       | -             | it is fixed<br>e of above   |              |   |  |
|                                  |  | *********     |                             |              |   |  |



Binary format

4.None







| 10) C          | CTV cameras is an exa                             | nple for automation   |
|----------------|---|---|
| (II)           | Office automation                                 | 2. Scientific automation  |
| 3.             | Industrial automation                             | 4.Building automation   |
| 11) Th         | ne PLC's can be progra                            | mmed in   |
| 1.<br>3.       | Instruction list, Function Sequential function of |   |
| 12) Th         | e programmable logic                              | controllers are used in   |
| 1.<br>3.       | Cement manufacturing Glass and paper indust       | ~   |
| 13) Th         | e sequences are classif                           | ed into   |
| 1.             | One 2.Two   | C(3)Three 4.Four  |
| 14) In         | modular type PLC, the                             | PLC's are classified into   |
| 1.             | Transistor output PLC                             | 2.Relay output PLC  |
|                | Triac output PLC                                  | 4.All of the above  |
| 15) In 1       | fixed programmable lo                             | gic controller  |
| 1.             | Output is fixed                                   | 2.Input is fixed  |
| 3.             | None of the above \                               |   |
| 16) The        | e advantages of PLC a                             | e   |
| 1.             | Reliability is high                               | Dr. G. Balakrishnan, M.E., Ph.D.,                                 |
| 2.             | Small in size                                     | Principal   |
| 3.             | Easy maintenance                                  | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |
| <b>(4.)</b>    | All of the above                                  | Manikandam, Trichy-620 012.                                       |
| 17) The        | e visual programming                              | anguage also called as  |
| O(1.)          | -   | 2.Relay logic   |
| 2.             | All of the above                                  | 4.Controller logic  |
| 18) <b>The</b> | PLC internally opera                              | es, stores, and calculates the value in                           |
| 1              | Decimal format                                    | 2.Octal format  |



#### COLLEGE OF ENGINEERING





# 19 What are the components that make the programmable logic controller work?

| 1. Power supply                     | 2.CPU                            |
|-------------------------------------|----------------------------------|
| 3. Input and output module          | (4. All of the above             |
| 20) The control in SCADA is         |                                  |
| 1. Online control                   | 2. Direct control                |
| 3. Supervisory control              | 4. Automatic control             |
| 21) When did the SCADA start?       | ,                                |
| 1.1980s 2. 1990s                    | 3. 1970s (4.1960s                |
| 22) Which of the following is an    | example of the SCADA system?     |
| 1. Emerson Delta V                  | 2. Honeywell Plant Scape         |
| 3. Yokogawa CENTUM                  | Power Studio Deluxe              |
| 23) How many levels are presen      | t in a complex SCADA system?     |
| 1. 3 – Levels 2.                    | 5 Levels                         |
| 3. 4 – Levels                       | 6 – Levels                       |
| 24) Which of the following is the   | e heart of a SCADA system?       |
| <b>1.</b> PLC 2. HMI                | Alarm task 4. I/O task           |
| 25) Which of the following is not   | the component of a SCADA system? |
| <ol> <li>Database server</li> </ol> | 2. I/O system                    |
| 3.PLC controller                    | (A.)Sparger controller           |

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.







Name of the Student: Hari hevrem. M

Year/Sem: V /VII

AU Register Number: 811218165002

# Value Added Course

|          |  |                 |                                   | a course       |             |  |
|----------|--|-----------------|-----------------------------------|----------------|-------------|--|
|          | "Automation using PLC and SCADA"  MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)                          |                 |                                   |                |             |  |
| 1) WI    | nich is the first l  | PLC model?      |                                   |                |             |  |
| 1.       | PLC 086  | 2.PLC 085       | (3)PLC 084                        | 4.None         |             |  |
| 2) Ho    | w many operati   | on steps does t | he programmab                     | le logic contr | oller have? |  |
| 1.       | Two  | 2.One           | Our                               | 4.Three        |             |  |
| 3) In 1  | PLC operation  | ct              | ecks the status                   | at the input s | ide         |  |
| 1.       | Program scan   | 2.Output scan   | Input scan                        | 4.None         |             |  |
| 4) Th    | e components tl  | nat make PLC    | works can be di                   | vided into     |             | core areas   |
| 1.       | Two  | 2.One           | 3. Four                           | 4.Three        |             |  |
| 5) In F  | PLC operation_   | re              | trieves the data                  | into an outpu  | t module    |  |
| 10       | Output scan  | 2.Inpu          | it șcan                           | 3.Program so   | can 4       | .None of the above   |
| 6) Befo  | ore PLC's was c  | reated many in  | ndustries used _                  |                |             |  |
| 1.       | Capacitors   | Relays          | 3.Resistors                       | 4. None of the | e above     |  |
| 7) Wha   | at are the types   | of programma    | ble logic control                 | llers?         |             |  |
|          | Modular, uniform   |                 | 2.Fixed and Mo<br>4.None of the a |                |             | 0:   |
| 8) Who   | 8) Who invented the Programmable Logic Controller (PLC)?  Dr. G. Balakrishnan, M.E., Ph.D.,  Principal |                 |                                   |                |             |  |
| 1.<br>3. | Dick Morley<br>Thomas Davenp   |                 | s Wenstrom                        |                | IG Valle    | san College of Engineering<br>by, Madurai Main Road<br>ndam, Trichy-620 012. |
| 9) In n  | nodular prograi  | mmable logic c  | ontroller                         | _              |             |  |
| 1        | 0-1  | 2.1             | . ~ .                             |                |             |  |

Output is fixed All of above

2.Input is fixed

4. None of above



# COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Apparoved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(6) Status Institution by UGC



| 10) C          | CTV cameras is an exa   | mple for au                      | utomation   |
|----------------|---|----------------------------------|---|
| 3.             | Office automation Industrial automation                             | 2.Scientific<br>4.Building a     |   |
| 11) Th         | ne PLC's can be progra  | ammed in                         |   |
| 1.<br>3.       | Instruction list, Functi<br>Sequential function of                  | _                                | Ladder logic, structured text 4.All of the above  |
| 12) Th         | ie programmable logic   | controllers are used             | in  |
| 1.<br>3.       | Cement manufacturing Glass and paper indust                         | ·                                | *   |
| 13) Th         | e sequences are classif   | ied into                         | v.  |
| 1.             | One CTwo  | 3.Three                          | 4.Four  |
| 14) In         | modular type PLC, the   | e PLC's are classified           | into  |
| 1.             | Transistor output PLC Triac output PLC                              | 2.Relay outp<br>4.All of the a   |   |
| 15) In         | fixed programmable lo   | ogic controller                  | _   |
| 1.<br>3.       | Output is fixed  None of the above                                  | 2.Input is fixed  4All of above  | 1 A.  |
| 16) Th         | e advantages of PLC a   | re                               | 100   |
| 1.<br>2.<br>3. | Reliability is high Small in size Easy maintenance All of the above |                                  | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 17) The        | e visual programming  | language also called a           | ns  |
| 2.             | Ladder logic All of the above                                       | Relay logic     Controller logic |   |
| 18) <b>The</b> | PLC internally opera  | tes, stores, and calcul          | ates the value in   |
| 1.             | Decimal format Binary format  | 2.Octal format<br>4.None         |   |







Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status institution by UGC

| 19 | What are the components | that make | the programmable | logic controller work? |
|----|-------------------------|-----------|------------------|------------------------|
|----|-------------------------|-----------|------------------|------------------------|

| 1. | Power | supply |
|----|-------|--------|
|----|-------|--------|

Input and output module

ll of the above

#### 20) The control in SCADA is

1. Online control

2. Direct control

3. Supervisory control

4. Automatic control

#### 21) When did the SCADA start?

1.1980s

2. 1990s

3.1970s



### 22) Which of the following is an example of the SCADA system?

1. Emerson Delta V

2. Honeywell Plant Scape

3. Yokogawa CENTUM

4. Power Studio Deluxe

#### 23) How many levels are present in a complex SCADA system?

1. 3 - Levels

2. 5 -Levels

3.4 - Levels

04% - Levels

### 24) Which of the following is the heart of a SCADA system?

1. PLC

2. HMI

Alarm task

4. I/O task

### 25) Which of the following is not the component of a SCADA system?

1. Database server

2. I/O system

3.PLC controller

(4) \$parger controller

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Tiruchirapatii- 620 012
Approved by AlCTE, NewDelhi & Affiliated to Anna University, Chennai
Accredited by NAAC with B+ Grade

# Value Added Course

"Introduction to Machine Learning"

Name of the Student:

Year/Sem:

AU Register Number:

| MULTIPLE CHOICE QUEST  | TIONS (25X1 = 25 Marks)   |
|--|---|
| <ol> <li>Type of matrix decomposition model is         <ul> <li>a) predictive model</li> <li>c) logical model</li> </ul> </li> <li>PCA is         <ul> <li>a) backward feature selection</li> <li>c) feature extraction</li> </ul> </li> <li>Supervised learning and unsupervised clustering both a) input attribute</li> <li>c) output attribute</li> <li>4.Following are the types of supervised learning</li> </ol> | b) descriptive model d) None b) forward feature selection   |
| <ul> <li>a) regression</li> <li>c) subgroup discovery</li> <li>5. A feature F1 can take certain value: A, B, C, D, E, &amp; Here feature type is_</li> <li>a) ordinal</li> </ul>   |   |
| <ul><li>c) categorical</li><li>6. Following is powerful distance metrics used by Geon</li><li>a) manhattan distance</li></ul>  | b) nominal d) boolean netric model_   |
| c) All of above 7. The output of training process in machine learning is_ a) machine learning algorithm c)Null 8. Which of the following is a good test dataset character a) is representative of the dataset as a whole   | Mailiku   |
| c) All of above  9. Which of the following techniques would perform bette a) removing columns which have high variance in data   | o) large enough to yield meaningful results d) None of the above r for reducing dimensions of a data set? |
| c)removing columns with dissimilar data trends   | b) removing columns which have too many missing value d) None of the above                                |

33.



Madural Main Road (NH-45B), Manikandam, Tiruchirapath-620 012
Approved by AICTE, NewDelhi & Affillated to Anna University, Chennal
Accredited by NAAC with B+ Grade

# Value Added Course

"Introduction to Machine Learning"

| 10. What characterize is hyperplane in geometrical man a) a plane with 1 dimensional fewer than number of b) b) a plane with 1 dimensional more than number  | **************************************  |
|--|---|
| c) a plane with 2 dimensional more than number of ing d) d) a plane with 2 dimensional fewer than number of  |   |
| 11. You are given reviews of few Netflix series marked Classifying reviews of a new netflix series is an examp a) unsupervised learning  c) supervised learning  12. Like the probabilistic view, the view allows us to a            | d as positive, negative and neutral.  le of  b) semi supervised learning d) reinforcement because |
| each classification a) deductive c) classical 13. The problem of finding hidden structure in unlabeled a) unsupervised learning c) supervised learning   | b) exampler   |
| <ul> <li>14. If machine learning model output involves target var</li> <li>a) predictive model</li> <li>c) reinforcement learning</li> <li>15. Database query is used to uncover this type of knowled</li> </ul>                     | b) descriptive model  d) All of shove   |
| <ul><li>a) hidden</li><li>c) deep</li><li>16. Data used to build a data mining model.</li><li>a) training data</li></ul>   | b) shallow d) multidimensional  Dr. G. Balaktishnan, M.E., Ph.D.,  Principal                      |
| c) test data  17. Application of machine learning methods to large data a.) big data computing c) data mining  18. Which learning Requires Self Asserting to the self-self asserting to the self-self-self-self-self-self-self-self- | d) validation data a dra Ganesan College Main Road  |
| <ul><li>18. Which learning Requires Self-Assessment to identify patterns within data?</li><li>a) supervised learning</li><li>c) semi supervised learning</li></ul>   | b) unsupervised learning d) reinforced learning   |



# Value Added Course

"Introduction to Machine Learning"

- 19. In simple term, machine learning is
- a) prediction to answer a query

b) training based on historical data

c) All of above

- d) None of above
- 20. Of the Following Examples, Which would you address using an supervised learning Algorithm?
- a) given a set of news articles found on the web, group them into set of articles about the same story
- b) given email labeled as spam or not spam, learn a spam filter
- c) given a database of customer data, automatically discover market segments and group customers into different market segments
- d) find the patterns in market basket analysis
- 21. If machine learning model output doesn't involves target variable then that model is called as\_
- a) predictive model

b)descriptive model

c) reinforcement learning

- d) all of the above
- 22. In what type of learning labelled training data is used
- a)supervised learning

b) unsupervised learning

c) reinforcement learning

- d) active learning
- 23. In the example of predicting number of babies based on stork's population , Number of babies is
- a)feature

b) observation

c) outcome

- d) attribute
- 24. Following are the descriptive models a) classification

b) clustering

c) association rule

- d) Both 1 and 2
- 25. In following type of feature selection method we start with empty feature set
- a) backward feature selection

b) forward feature selection

c) All of above

d) None of above

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Madurel Main Road (NH-45B), Manikandam, Tiruchirapalli-620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal Accredited by NAAC with B+ Grade

# Value Added Course

"Introduction to Machine Learning"

### **ANSWER KEY**

| 1 | С | 6  | d | 11 | С | 16 | d | 21 | b |
|---|---|----|---|----|---|----|---|----|---|
| 2 | a | 7  | d | 12 | ь | 17 | d | 22 | d |
| 3 | 3 | 8  | a | 13 | 8 | 18 | c | 23 | a |
| 4 | Ь | 9  | d | 14 | С | 19 | c | 24 | b |
| 5 | a | 10 | c | 15 | d | 20 | а | 25 | Ь |

Balake

**VAC Coordinator** 

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



c)removing columns with dissimilar data trends

COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Tiruchirapalli-620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

# Value Addad O

| value Adde   | ed Course (25)   |      |  |  |  |  |
|--|--|------|--|--|--|--|
| "Introduction to M   |  |      |  |  |  |  |
| Name of the Student: Santhan 2019. A   | Year/Sem: (1) /V)  |      |  |  |  |  |
| AU Register Number: 811 & 1910 600   |  |      |  |  |  |  |
| MULTIPLE CHOICE QUES   | TIONS (25X1 = 25 Marks)                                  |      |  |  |  |  |
| -34. or marrix accomposition model is  | May 172 de L   |      |  |  |  |  |
| a) predictive model  | b) descriptive model                                     |      |  |  |  |  |
| © logical model /  | d) None  |      |  |  |  |  |
| 2. PCA is_   |  |      |  |  |  |  |
| (a) backward feature selection   | b) forward feature selection                             |      |  |  |  |  |
| c) feature extraction  | d) None of there   |      |  |  |  |  |
| 3. Supervised learning and unsupervised clustering b   | both require which is correct according to the statemen  | - 4- |  |  |  |  |
|  | b) hidden attribute                                      | IŁ   |  |  |  |  |
| c) output attribute  | d)categorical attribute                                  |      |  |  |  |  |
| 4. Following are the types of supervised learning  |  |      |  |  |  |  |
| a) regression  | 6 classification   |      |  |  |  |  |
| c) subgroup discovery  | d) All of above  |      |  |  |  |  |
| 5. A feature F1 can take certain value: A, B, C, D, E, Here feature type is                                    | & F and represents grade of students from a college.     |      |  |  |  |  |
| (a) ordinal  |  |      |  |  |  |  |
| c) categorical   | b) nominal   |      |  |  |  |  |
| 6. Following is powerful distance metrics used by Geo  | d) boolean   |      |  |  |  |  |
| a) manhattan distance  |  |      |  |  |  |  |
| c) All of above  | b) euclidean distance                                    |      |  |  |  |  |
| 7. The output of training process in machine learning is   | (d) None of above  |      |  |  |  |  |
|  |  |      |  |  |  |  |
| c)Null   | machine learning model Dr. G. Balakrishnan, M.E., Ph.D., |      |  |  |  |  |
| ď  | Dr. G. Balakt Principal                                  |      |  |  |  |  |
| 8. Which of the following is a good test dataset charact a) is representative of the dataset as a whole        | Indra Garres Main Ruad                                   |      |  |  |  |  |
| c) All of above  | meaningful results Manne                                 |      |  |  |  |  |
|  |  |      |  |  |  |  |
| 9. Which of the following techniques would perform bet<br>a) removing columns which have high variance in data | tter for reducing dimensions of a data set?              |      |  |  |  |  |
| when have night variance in data   | b) removing columns which have too many                  |      |  |  |  |  |
| c)removing columns with dissimilar data trand-   | missing value  |      |  |  |  |  |

(d) None of the above



COLLEGE OF ENGINEERING
Medural Main Road (NH-45B), Manikendam, Tiruchirapatil-620 012
Approved by AICTE, NewDelhil & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

| <ul><li>c) a plane with 2 dimensional more than num</li><li>d) d) a plane with 2 dimensional fewer than r</li><li>11. You are given reviews of few Netflix serious</li></ul> | number of input attributes Indra Ganesan Consultation Main 10 012.  Indra Gane |
|--|--|
| Classifying reviews of a new netflix series is   | an example of  |
| a) unsupervised learning  Supervised learning  | b) semi supervised<br>learning<br>d) reinforcement learning  |
| each classification  | ws us to associate a probability of membership with  |
| a) deductive   | (b) exampler /   |
| c) classical   | d) inductive   |
| 13. The problem of finding hidden structure in   | unlaheled data is colled   |
| (a) unsupervised learning  |  |
| c) supervised learning   | b) reinforcement learning d) None  |
| 14. If machine learning model output involves  | target veriable then that we let !   |
| a) predictive model  |  |
| c) reinforcement learning  | b) descriptive model   |
| 15. Database query is used to uncover this type  | d) All of above  |
| a) hidden  |  |
| c) deep  | b) shallow   |
| 16. Data used to build a data mining model.  | (d) multidimensional   |
| a) training data   |  |
| c) test data   | b) hidden data   |
| ·  | d) validation data   |
| 17. Application of machine learning methods to   | large databases is called_   |
| a.) big data computing   | b) artificial intelligence   |
| c) data mining   | d)Internet of things   |
| 18. Which learning Requires Self-Assessment to patterns within data?   | identify   |
| a) supervised learning   | b) unsupervised learning   |
| © semi supervised learning   | d) reinforced learning   |



COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Tiruchirapalif-620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

| 19. In simple term, machine learning is   |   |
|---|---|
| a) prediction to answer a query &   | b) training based on historical data  |
| c) All of above   | d) None of above  |
| 20. Of the Following Examples, Which would yo   | u address using an supervised learning Algorithm?   |
| (a) given a set of news articles found on the web. (b) given email labeled as spam or not spam, learn   | group them into set of articles about the same story, a spam filter                                 |
| <ul><li>c) given a database of customer data, automatical into different market segments</li><li>d) find the patterns in market basket analysis</li><li>21. If machine learning model output doesn't investigated</li></ul> | ly discover market segments and group customers olves target variable then that model is called as_ |
| a) predictive model   | (b)descriptive model  |
| c) reinforcement learning   | d) all of the above   |
| 22. In what type of learning labelled training data   | is used_  |
| a)supervised learning   | b unsupervised learning &   |
| c) reinforcement learning   | d) active learning  |
| 23. In the example of predicting number of babies   | based on stork's population ,Number of babies is_   |
| (a) feature ~   | b) observation  |
| c) outcome  | d) attribute  |
| 24. Following are the descriptive models  |   |
| a) classification   | b) clustering   |
| c) association rule 🔍   | d) Both I and 2   |
| 25. In following type of feature selection method w   | e start with empty feature set  |
| a) backward feature selection   | (b) forward feature selection   |
| c) All of above   | d) None of above  |
|   |   |
|   |   |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING
Medural Main Road (NH-458), Manikandam, Tiruchirapalli- 620 012
Approved by AlCTE, NewDelhi & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

| Dr. | G. | Balakrishnan, | M.E., | rn.u., |
|-----|----|---------------|-------|--------|
|     |    | Principal     |       |        |

Value Added Course

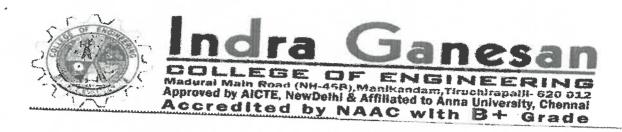
Indra Gar

IG Va Mani

c)removing columns with dissimilar data trends

| anesan College of Engineering<br>Valley, Madurai Main Road<br>Inikandama Trichy-620 012.<br>Inikandama ne of the Student: | "Introduction to M   |   |
|---|--|---|
|   |  | Year/Sem: 10 VIII Q5                                    |
| AU Register Number: 8 1 \   | 218 (00017   |   |
| 1. Type of matrix decomposition   | PLE CHOICE QUEST<br>on model is  | TIONS (25X1 = 25 Marks)                                 |
| a) predictive model   |  | b) descriptive model                                    |
| (c) ogical model  |  | d) None   |
| 2. PCA is_  |  | .,  |
| (a) backward feature selection  |  | b) forward feature selection                            |
| (c) feature extraction  |  | d) None of these  |
| 3. Supervised learning and unsu   | pervised clustering b  | oth require which is correct according to the statement |
|   |  | b) hidden attribute                                     |
| c) output attribute   |  | d)categorical attribute                                 |
| 4. Following are the types of sur   | pervised learning  | -ywegorivar attatotice                                  |
| a) regression   | <u> </u>   | © classification  |
| c) subgroup discovery   |  | d) All of charge  |
| 5. A feature F1 can take certain v<br>Here feature type is  | value: A, B, C, D, E,  | & F and represents grade of students from a college.    |
| a) ordinal  |  | h) ' - '  |
| c) categorical  |  | b) nominal  |
| 6. Following is powerful distance   | metrics used by Geo  | d) boolean  |
| a) manhattan distance   | and the contract of the contra |   |
| c) All of above   |  | b) euclidean distance                                   |
| 7. The output of training process i   | n machine learning :   | d) None of above  |
| a) machine learning algorithm   |  |   |
| c)Null  | Ğ  | machine learning model                                  |
| 8. Which of the following is a goo  | w test dataget above to  | ) accuracy  |
| a) is representative of the dataset a   | s a whole  |   |
|   | s a whole  | b) large enough to yield meaningful results             |
| c) All of above   |  | d) None of the above                                    |
| 9. Which of the following techniqu  | es would perform bet   | tter for reducing dimensions of a data set?             |
| a) removing columns which have h  | igh variance in data   | b) removing columns which have too many                 |
| c)removing columns with dissimilar  | n dota to o I  | missing value   |

(d) None of the above



| 10. What characterize is hyperplane in geometri   | cal model of machine landing                 |
|---|--|
| <ul><li>a) a plane with 1 dimensional fewer than numbe</li><li>b) b) a plane with 1 dimensional more than num</li></ul> | ir tr Balaki Siman, M.E., i i.e.,            |
| (E) a plane with 2 dimensional more than number d) d) a plane with 2 dimensional fewer than num                         | india dariesari Consego da la san Road       |
|   |  |
| 11. You are given reviews of few Netflix series n<br>Classifying reviews of a new netflix series is an e                | narked as positive, negative and neutral.    |
| a) unsupervised learning  |  |
|   | b) semi supervised                           |
| Supervised learning   | learning d) reinforcement learning           |
| 12. Like the probabilistic view, the view allows u each classification  | is to associate a probability of manifest in |
| each classification a) deductive  | a probability of memoership with             |
| e) classical  | b) exampler                                  |
|   | d) inductive                                 |
| 13. The problem of finding hidden structure in unla   | abeled data is called                        |
| a unsupervised learning   | b) reinforcement learning                    |
| c) supervised learning  | d) Nama                                      |
| 14. If machine learning model output involves targe   | et variable then that model is called as     |
| , i model   | b) descriptive model                         |
| © reinforcement learning  | d) All of chare                              |
| 15. Database query is used to uncover this type of k  | nowledge                                     |
| a) hidden   | b) shallow                                   |
| c) deep   | d multidimensional                           |
| 16. Data used to build a data mining model.   | C) marduniciisionai                          |
| a) training data  | b) hidden data                               |
| c) test data  | d validation data                            |
| 17. Application of machine learning methods to large  | databassa is all a                           |
| a.) big data computing  |  |
| c) data mining  | b) artificial intelligence                   |
| 18. Which learning Requires Self-Assessment to iden   | (d)internet of things                        |
| batterns within data?   | nry  |
| a) supervised learning  | b) unsupervised learning                     |
| © semi supervised learning  | d) reinforced learning                       |
|   | -/ remove on regularity                      |



COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Mantkandam, Tiruchirapalli-620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal
Accredited by NAAC with B+ Grade

| 19. In simple term, machine learning is   |  |
|---|--|
| a) prediction to answer a query   | b) training based on historical data   |
| (c) All of above  | d) None of above   |
| 20. Of the Following Examples. Which would  | you address using an supervised learning Algorithm?  |
| (a) given a set of news articles found on the well b) given email labeled as spam or not spam, le | b. group them into set of articles about the same stars  |
| d) find the patterns in market basket analysis  | cally discover market segments and group customers nvolves target variable then that model is called as_ |
| a) predictive model   | b)descriptive model  |
| c) reinforcement learning   | (d) all of the above   |
| 22. In what type of learning labelled training da   | ta is used_  |
| a)supervised learning   | b) unsupervised learning   |
| c) reinforcement learning   | (f) active learning  |
| 23. In the example of predicting number of babi   | es based on stork's population ,Number of babies is_   |
| a feature.  | b) observation   |
| c) outcome  | d) attribute   |
| 24. Following are the descriptive models_   |  |
| a) classification   | (b) clustering   |
| c) association rule   | d) Both 1 and 2  |
| 25. In following type of feature selection method   | we start with empty feature set  |
| a) backward feature selection   | (b) forward feature selection  |
| c) All of above   | d) None of above   |
|   |  |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal
NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student:

Year/Sem:

### AU Register Number:

### Value Added Course

## "Graphene Battery Technologies"

- 1. The current flow through electrolyte is due to the movement of
- (A) ions
- (B) holes
- (C) electrons
- (D) none of the above
- 2. If a lead-acid cell is discharged below 1.8 V the following will happen.
- (A) Capacity of cell will reduce
- (B) Sulphation of plates will occur
- (C) Internal resistance will increase
- (D) All above will occur
- 3. Each cell has a vent cap
- (A) to allow gases out when the cell is on charge
- (B) to add water to the cell if needed
- (C) to check the level of electrolyte
- (D) to do all above functions

Dr. G. Balakrishnan, M.E., Ph.D. Principal

- 4. Following will occur if level of electrolyte falls below plates
- (A) capacity of the cell is reduced
- (B) life of the cell is reduced
- (C) open plates are converted to lead sulphate
- (D) all above





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

- 5. Which of the following battery is used for air-craft?
- (A) Lead-acid battery
- (B) Nickel-iron battery
- (C) Dry cell battery
- (D) Silver oxide battery
- 6. Cells are connected in parallel to
- (A) increase the efficiency
- (B) increase the current capacity
- (C) increase the voltage output
- (D) increase the internal resistance
- 7. In a battery cover is placed over the element and sealed to the top of the battery container. This is done
- (A) to reduce evaporation of water from electrolyte
- (B) to exclude dirt and foreign matter from the electrolyte
- (C) to discharge both of the above functions
- (D) to discharge none of the above functions
- 8. Level of electrolyte in a cell should be the level of plates
- (A) below
- (B) equal to
- (C) above
- (D) none of the above
- 9. Under normal charging rate, the charging current should be
- (A) 10% of capacity
- (B) 20% of capacity
- (C) 30% of capacity
- (D) 40% of capacity

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal







- 10. Satellite power requirement is provided through
- (A) solar cells
- (B) dry cells
- (C) nickel-cadmium cells
- (D) lead-acid batteries
- 11. A constant-voltage generator has
- (A) minimum efficiency
- (B) minimum current capacity
- (C) low internal resistance
- (D) high internal resistance
- 12. 48 ampere-hour capacity would deliver a current of
- (A) 48 amperes for 1 hour
- (B) 24 amperes for 2 hours
- (C) 8 amperes for 6 hours
- (D) 6 amperes for 8 hours
- 13. Mercury cell has which of the following characteristics?
- (A) Flat discharge current-voltage curve
- (B) High power to weight ratio
- (C) Comparatively longer shelf life under adverse conditions of high temperature and humidity
- (D) All of the above

an, M.E., Ph.D.,

Principal





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemusi NAAC Accredited, 2(F) Status Institution by UGC

- 14. Which of the following factors adversely affects the capacity of the lead acid battery?
- (A) Temperature of surroundings
- (B) Specific gravity of electrolyte
- (C) Rate of discharge
- (D) All of the above
- 15. Internal resistance of a cell is reduced by
- (A) using vent plug to permit gas formed during discharge
- (B) increasing the plate area
- (C) putting plates very close together
- (D) all above methods
- 16. Trickle charging of a storage battery helps to
- (A) maintain proper electrolyte level
- (B) increase its reserve capacity
- (C) prevent sulphation
- (D) keep it fresh and fully charged
- 17. It is noticed that durum charging
- (A) there is a rise in voltage
- (B) energy is absorbed by the cell
- (C) specific gravity of H2SO4 is increased
- (D) the anode becomes chocolate brown in colour (PbCfe) and cathode becomes grey metallic lead (Pb)
- (E) all of the above



#### GULLEGE UF ENGINEERING





- 18. Which of the following cell has a reversible chemical reaction?
- (A) Lead-acid
- (B) Mercury oxide
- (C) Carbon-zinc
- (D) Silver-oxide
- 19. Batteries are charged by
- (A) rectifiers
- (B) engine generator sets
- (C) motor generator sets
- (D) any one of the above methods
- 20. Cell short circuit results in
- (A) low specific gravity electrolyte
- (B) abnormal high temperature
- (C) reduced gassing on charge
- (D) all above
- 21. Internal short circuits are caused by
- (A) Breakdown of one or more separators
- (B) Excess accumulation of sediment at the bottom of the cell
- (C) Both (A) and (B)
- (D) None of the above

| 22. The | e substances | which combine | together to | o store | electrical | energy | during the | charge | are |
|---------|--------------|---------------|-------------|---------|------------|--------|------------|--------|-----|
| called  |              | materials     |             |         |            |        |            |        |     |

- (A) Active
- (B) Passive
- (C) Inert
- (D) Dielectric

Dr. G. Balakrishnan, M.E., Ph.D., Principal



## COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC



- 23. Battery container should be acid resistance; therefore it is made up of
- (A) Glass
- (B) Plastic
- (C) Wood
- (D) All of the above
- 24.\_\_\_\_\_ of electrolyte indicates the state of charge of the battery
- (A) Colour
- (B) Mass
- (C) Viscosity
- (D) Specific gravity
- 25. In alkaline cell the electrolyte is
- (A) Dilute sulphuric acid
- (B) Concentrated sulphuric acid
- (C) NaOH
- (D) KOH

Dr. G. Balakrishnan, M.E., Ph.D.,





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC

#### Value Added Course

#### "Graphene Battery Technologies"

#### **ANSWER KEY**

| 1 | a | 6  | Ъ | 11 | С | 16 | d | 21 | b   |
|---|---|----|---|----|---|----|---|----|-----|
| 2 | d | 7  | С | 12 | d | 17 | e | 22 | · d |
| 3 | d | 8  | С | 13 | d | 18 | a | 23 | С   |
| 4 | d | 9  | a | 14 | d | 19 | d | 24 | a   |
| 5 | ь | 10 | a | 15 | d | 20 | d | 25 | Ъ   |

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

VAC Coordinator

HoD/Mechanical



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student: Praveer A

AU Register Number: 811218114012

Year/Sem: 10/meel

### Value Added Course

## "Graphene Battery Technologies"

- 1. The current flow through electrolyte is due to the movement of
- (M) ions
- (B) holes
- (C) electrons
- (D) none of the above
- 2. If a lead-acid cell is discharged below 1.8 V the following will happen.
- (A) Capacity of cell will reduce
- (B) Sulphation of plates will occur
- (C) Internal resistance will increase
- (D) All above will occur
- 3. Each cell has a vent cap
- (A) to allow gases out when the cell is on charge
- (B) to add water to the cell if needed
- (C) to check the level of electrolyte
- (b) to do all above functions

Dr. G. Balakrishnan, M.E., Ph.D. Principal

- 4. Following will occur if level of electrolyte falls below plates
- (A) capacity of the cell is reduced
- (B) life of the cell is reduced
- (C) open plates are converted to lead sulphate
- (D) all above





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Defini & Affiliated to Anna University, Chennai

|                           | Tranc Accredited, 2(E) Status Institution by UGC |
|---------------------------|--|
| 5. Which of the following | battery is used for air-craft?                   |
| (A) Lead-acid battery     |  |

- (B) Nickel-iron battery
- (C) Dry cell battery
- · (D) Silver oxide battery
- 6. Cells are connected in parallel to
- (A) increase the efficiency
- (B) increase the current capacity
- (C) increase the voltage output
- (D) increase the internal resistance
- 7. In a battery cover is placed over the element and sealed to the top of the battery container. This is done
- (A) to reduce evaporation of water from electrolyte
- (B) to exclude dirt and foreign matter from the electrolyte
- to discharge both of the above functions
- (D) to discharge none of the above functions
- 8. Level of electrolyte in a cell should be \_\_\_\_\_ the level of plates
- (A) below
- (B) equal to
- (C) above
- (D) none of the above
- 9. Under normal charging rate, the charging current should be
- 10% of capacity
- (B) 20% of capacity
- (C) 30% of capacity
- (D) 40% of capacity

Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



- 10. Satellite power requirement is provided through
- (A) solar cells
- (B) dry cells
- nickel-cadmium cells
- (D) lead-acid batteries
- 11. A constant-voltage generator has
- (A) minimum efficiency
- B minimum current capacity
- (C) low internal resistance
- (D) high internal resistance
- 12. 48 ampere-hour capacity would deliver a current of
- (A) 48 amperes for 1 hour
- (B) 24 amperes for 2 hours
- (C) 8 amperes for 6 hours
- (D) 6 amperes for 8 hours
- 13. Mercury cell has which of the following characteristics?
- A Flat discharge current-voltage curve
- (B) High power to weight ratio
- (C) Comparatively longer shelf life under adverse conditions of high temperature and humidity
- (D) All of the above

Dr. G. Balakrishnan, M.E., Ph.D., Principal



#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemai NAAC Accredited, 2(F) Status Institution by UGC



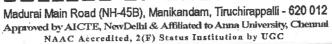
- 14. Which of the following factors adversely affects the capacity of the lead acid battery?
- (A) Temperature of surroundings
- (B) Specific gravity of electrolyte
- (C) Rate of discharge
- MAll of the above
- 15. Internal resistance of a cell is reduced by
- (A) using vent plug to permit gas formed during discharge
- (B) increasing the plate area
- (C) putting plates very close together
- all above methods
- 16. Trickle charging of a storage battery helps to
- (A) maintain proper electrolyte level
- (B) increase its reserve capacity
- (C) prevent sulphation
- (iii) keep it fresh and fully charged
- 17. It is noticed that durum charging
- (A) there is a rise in voltage
- (B) energy is absorbed by the cell
- (C) specific gravity of H2SO4 is increased
- (D) the anode becomes chocolate brown in colour (PbCfe) and cathode becomes grey metallic lead (Pb)
- all of the above



Dielectric

## Indra Ganesan

#### COLLEGE OF ENGINEERING





| NAAC Accredited, 2(k) Status institution by OGC  |
|--|
| 18. Which of the following cell has a reversible chemical reaction?  |
| (A) Lead-acid  |
| (B) Mercury oxide  |
| (C) Carbon-zinc  |
| (D) Silver-oxide   |
|  |
| 19. Batteries are charged by   |
| (A) rectifiers   |
| (B) engine generator sets  |
| (C) motor generator sets   |
| (D) any one of the above methods   |
|  |
| 20. Cell short circuit results in  |
| (A) low specific gravity electrolyte   |
| (B) abnormal high temperature  |
| (C) reduced gassing on charge  |
| (D) all above  |
| 21. Internal short circuits are caused by  |
| (A) Breakdown of one or more separators  |
| (B) Excess accumulation of sediment at the bottom of the cell  |
| (C) Both (A) and (B)   |
| (D) None of the above  |
| 22. The substances which combine together to store electrical energy during the charge are   |
| called materials   |
| (A) Active   |
| (B) Passive  |
| (C) Inert  Dr. G. Balakrishnan, M.E., Ph.D.,   |
| The state of the s |



#### COLLEGE OF ENGINEERING





- 23. Battery container should be acid resistance; therefore it is made up of
- (A) Glass
- (B) Plastic
- (C) Wood
- (D) All of the above
- 24.\_\_\_\_\_ of electrolyte indicates the state of charge of the battery
- (A) Colour
- (B) Mass
- (C) Viscosity
- (D) Specific gravity
- 25. In alkaline cell the electrolyte is
- (A) Dilute sulphuric acid
- (B) Concentrated sulphuric acid
- (C) NaOH
- (D) KOH

Dr. G. Balakishiran, M.E., Ph.D.

Principal



Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course

Dr. G. Balakrishnan, M.E., Ph.D., Deep Learning In Cyber Security "

**Principal** 

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

Manikandam, Trichy-620 012.

## 1. Amongst which of the following are the primary goals of cyber security?

- A. Encryption, authorization, and availability
- B. Confidentiality, integrity, and authentication
- C. Firewalls, intrusion detection, and data backups
- D. Phishing prevention, malware detection, and spam filtering

## 2. The term "Cyber Threats" in cyber security refers to \_\_\_\_\_.

- A. Techniques used by cybersecurity professionals to protect systems
- B. Malicious activities are carried out by hackers to breach firewalls
- C. Hardware components that are susceptible to cyber-attacks
- D. The process of encrypting sensitive data for secure transmission

## 3. The process of encoding data to protect it from unauthorized access is known as \_\_\_\_\_.

- A. Encryption
- B. Firewall
- C. Intrusion Detection
- D. Multi-factor Authentication

## 4. Which of the following options best defines an attack vector in terms of cyber security?

- A. A software tool used by ethical hackers to test system vulnerabilities
- B. A technique to encrypt sensitive data during transmission
- C. A method or avenue used by cyber threats to gain unauthorized access to a system or network
- D. A hardware component that helps prevents denial-of-service attacks

## 5. What is the significance of a firewall in cybersecurity?

- A. To prevent unauthorized physical access to a computer
- B. To detect and remove malware from a computer
- C. To protect a computer from unauthorized network access
- D. To encrypt sensitive data on a computer



## 6. Which of the following options correctly identifies the two primary types of encryption used in cybersecurity?

- A. Symmetric encryption and multi-factor authentication
- B. Asymmetric encryption and Private-key encryption
- C. Single-factor encryption and Decryption
- D. Symmetric encryption and Asymmetric encryption

#### 7. Phishing is a type of cyber threat that involves .

- A. Mimicking an authorized user to steal sensitive information
- B. Gaining unauthorized access to a system
- C. Local storage destruction
- D. Sending large amounts of fake traffic to a server

#### 8. What does the term "Malware" stands for?

- A. Malfunctioning Software
- B. Malicious Firmware
- C. Malfunctioning Hardware
- D. Malicious Software

#### 9. Which of the following is an example of a cyber-attack on physical infrastructure?

- A. Phishing attack on employee's email
- B. DDoS attack on the company's server
- C. Stuxnet attack on an irrigation control system
- D. Ransomware attack on company's server

#### 10. What does the term "VPN" stand for?

- A. Virtual Personal Network
- B. Virtual Private Network
- C. Virtual Portable Network
- D. Virtual Public Network

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy-620 012.

## 11. Amongst which of the following shows the importance of regular data backups in cyber security?

- A. To protect against social engineering attacks
- B. To encrypt sensitive data during transmission
- C. To prevent unauthorized access to a network
- D. To ensure data recovery in case of data loss or cyber-attacks

#### 12. Which of the following is a common type of social engineering attack?

- A. Brute force attack
- B. Distributed Denial of Service (DDoS) attack



20. What does the letter "A" stand for in the CIA triad of cybersecurity?

- A. Authorization
- B. Accessibility
- C. Authentication
- D. Anonymity

## 21. Which type of encryption uses the same key for both encryption and decryption?

- A. Symmetric encryption
- B. Asymmetric encryption
- C. Hybrid encryption
- D. Public-key encryption

### 22. PGP is primarily used for \_\_\_\_.

- E. Network routing and packet filtering
- F. Securely transferring files over FTP
- G. Encrypting and decrypting email messages
- H. Managing database access and permissions

## 23. Which of the following encryption standard is used to secure Internet communications?

- A. AES (Advanced Encryption Standard)
- B. RSA (Rivest-Shamir-Adleman)
- C. DES (Data Encryption Standard)
- D. MD5 (Message Digest Algorithm 5)

## 24. The process of converting ciphertext back into its original plaintext is known as \_\_\_\_\_.

- A. Encryption
- B. Decryption
- C. Phishing
- D. Hashing

## 25. Which key is kept private and known only to the owner in public-key encryption?

- A. Public key
- B. Secret key
- C. Private key
- D. Shared key

or, G. Balakrishnan, M.E., Ph.D.,

**Principal** 



13. Which of the following is not a typical source of data leakage threats?

- A. Phishing attacks
- B. Insider threats
- C. Antivirus software
- D. Unsecured Wi-Fi networks

### 14. Amongst which of the following is not an example of physical data leakage?

- A. Printer
- B. Using weak passwords for online accounts
- C. Dumpster diving
- D. Shoulder surfing

### 15. Safeguarding the data from unauthorized modification by unknown users is known as

- A. Integrity
- B. Confidentiality
- C. Availability
- D. Authenticity

#### 16. What occurs when integrity is lacking in a system?

- A. Data breaches and unauthorized access
- B. Loss of data due to hardware failure
- C. Encryption of sensitive information
- D. Secure transmission of data over the internet

### 17. Which one of the following is a common way to maintain data availability?

- A. Data Encryption
- B. Regular Data Backups
- C. Intrusion Detection Systems
- D. Multi-factor Authentication

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

### 18. Which of the following options is true about "Vulnerability"?

- A. Vulnerability refers to the act of maliciously exploiting software flaws
- B. Vulnerability is a measure of the potential impact of a cyber-attackC. Vulnerability is a security mechanism used to protect computer systems
- D. Vulnerability is a weakness or flaw in a system that could be exploited by threats

#### 19. Social engineering is \_\_\_\_\_.

- A. A software technique used to prevent unauthorized access to a system
- B. A method used to protect data from modification by unauthorized users
- C. A cybersecurity principle that focuses on data confidentiality
- D. A type of cyber-attack that manipulates human psychology to deceive individuals and gain unauthorized acces



## Value Added Course "Deep Learning In Cyber Security"

#### ANSWER KEY

| 1 | В | 6  | Đ | 11 | D | 16 | A | 21 | A |
|---|---|----|---|----|---|----|---|----|---|
| 2 | В | 7. | A | 12 | С | 17 | В | 22 | С |
| 3 | Α | 8  | D | 13 | С | 18 | D | 23 | A |
| 4 | С | -9 | C | 14 | В | 19 | Ð | 24 | В |
| 5 | С | 10 | В | 15 | Α | 20 | С | 25 | С |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,



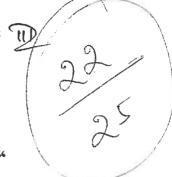
i Main Road (NH-45B), Manikandam, Trichy Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Name of the Student: Paujith. M AU Register Number: 8112 19 2050 11

Year/Sem: 🤇

Value Added Course

"Deep Learning In Cyber Security"



### MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

## 1. Amongst which of the following are the primary goals of cyber security?

- A. Encryption, authorization, and availability
- B. Confidentiality, integrity, and authentication
  - C. Firewalls, intrusion detection, and data backups
  - D. Phishing prevention, malware detection, and spam filtering

## 2. The term "Cyber Threats" in cyber security refers to \_\_\_\_\_.

- A. Techniques used by cybersecurity professionals to protect systems
- Malicious activities are carried out by hackers to breach firewalls
  - C. Hardware components that are susceptible to cyber-attacks
  - D. The process of encrypting sensitive data for secure transmission

## 3. The process of encoding data to protect it from unauthorized access is known as \_\_\_\_

- A. Encryption
- B. Firewall
- . Intrusion Detection
  - D. Multi-factor Authentication

## 4. Which of the following options best defines an attack vector in terms of cyber security?

- A. A software tool used by ethical hackers to test system vulnerabilities
- B. A technique to encrypt sensitive data during transmission
- A method or avenue used by cyber threats to gain unauthorized access to a system or network
  - D. A hardware component that helps prevents denial-of-service attacks

## 5. What is the significance of a firewall in cybersecurity?

- A. To prevent unauthorized physical access to a computer
- B. To detect and remove malware from a computer
- To protect a computer from unauthorized network access

D. To encrypt sensitive data on a computer

Dr. G. Balakrishnan, M.E., Ph.D.



6. Which of the following options correctly identifies the two primary types of encryption used i

| 6. | . Which of the following options correctly identifies the two presents of |  |
|----|---|--|
| 'n | n cybersecurity?  |  |
|    |   |  |

- A. Symmetric encryption and multi-factor authentication
- B. Asymmetric encryption and Private-key encryption
- C. Single-factor encryption and Decryption
- D. Symmetric encryption and Asymmetric encryption

### 7. Phishing is a type of cyber threat that involves \_

- Mimicking an authorized user to steal sensitive information
- B. Gaining unauthorized access to a system
- C. Local storage destruction
- D. Sending large amounts of fake traffic to a server

### 8. What does the term "Malware" stands for?

- A. Malfunctioning Software
- B. Malicious Firmware
- C. Malfunctioning Hardware
- Malicious Software

## 9. Which of the following is an example of a cyber-attack on physical infrastructure?

- A. Phishing attack on employee's email
- B. DDoS attack on the company's server
- Stuxnet attack on an irrigation control system
  - D. Ransomware attack on company's server

### 10. What does the term "VPN" stand for?

A. Virtual Personal Network

**B.)** Virtual Private Network

C. Virtual Portable Network

D. Virtual Public Network

Dr. G. Balakrishnan, M.E., Ph.D Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

### 11. Amongst which of the following shows the importance of regular data backups in cyber security?

- A. To protect against social engineering attacks
- B. To encrypt sensitive data during transmission
- C. To prevent unauthorized access to a network
- To ensure data recovery in case of data loss or cyber-attacks

## 12. Which of the following is a common type of social engineering attack?

- A. Brute force attack
- B. Distributed Denial of Service (DDoS) attack

(A) Phichino attack



## Ganesan

Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

13. Which of the following is not a typical source of data leakage threats?

- A. Phishing attacks
- B. Insider threats
- C. Antivirus software
- D. Unsecured Wi-Fi networks

#### 14. Amongst which of the following is not an example of physical data leakage?

- A. Printer
- M. Using weak passwords for online accounts
  - C. Dumpster diving
  - D. Shoulder surfing

### 15. Safeguarding the data from unauthorized modification by unknown users is known as

- A Integrity
  - B. Confidentiality
  - C. Availability
  - D. Authenticity

#### 16. What occurs when integrity is lacking in a system?

- A. Data breaches and unauthorized access
  - B. Loss of data due to hardware failure
  - C. Encryption of sensitive information
  - D. Secure transmission of data over the internet

### 17. Which one of the following is a common way to maintain data availability?

- A. Data Encryption
- Regular Data Backups
- C. Intrusion Detection Systems
- D. Multi-factor Authentication

பா. G. Balakrishnan, M.E., P.

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

### 18. Which of the following options is true about "Vulnerability"?

- A. Vulnerability refers to the act of maliciously exploiting software flaws
- B. Vulnerability is a measure of the potential impact of a cyber-attack
- C. Vulnerability is a security mechanism used to protect computer systems

  D. Vulnerability is a weakness or flaw in a system that could be exploited by threats

#### 19. Social engineering is \_\_\_\_\_.

- A. A software technique used to prevent unauthorized access to a system
- B. A method used to protect data from modification by unauthorized users
- C. A cybersecurity principle that focuses on data confidentiality
- D. A type of cyber-attack that manipulates human psychology to deceive individuals and gain unauthorized acces



Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

20. What does the letter "A" stand for in the CIA triad of cybersecurity?

| A. Authorization |  |
|------------------|--|
| B. Accessibility |  |
| M Anthondination |  |

Authentication D. Anonymity

| 21. | Which type of encryption | uses the same key for both encryption and decrypti | ion' |
|-----|--------------------------|--|------|
|-----|--------------------------|--|------|

- A Symmetric encryption
- B. Asymmetric encryption
- C. Hybrid encryption
- D. Public-key encryption

#### 22. PGP is primarily used for \_\_\_\_.

- E. Network routing and packet filtering
- F. Securely transferring files over FTP
- S. Encrypting and decrypting email messages
- H. Managing database access and permissions

## 23. Which of the following encryption standard is used to secure Internet communications?

- AES (Advanced Encryption Standard)
- B. RSA (Rivest-Shamir-Adleman)
- C. DES (Data Encryption Standard)
- D. MD5 (Message Digest Algorithm 5)

## 24. The process of converting ciphertext back into its original plaintext is known as \_\_\_\_.

- A. Encryption
- B. Decryption
  - C. Phishing
  - D. Hashing

## 25. Which key is kept private and known only to the owner in public-key encryption?

- A. Public key
- B. Secret key
- Private key
  - D. Shared key

Dr. G. Ralahari

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Ro. 16
Manikandam, Trichy-620 ULZ.



Name of the Student: Kaya Vizho

Year/Sem: (V

AU Register Number: 8 112/8205010

Value Added Course

Dr. G. Balakrishnan, M.E., Ph.D. Principal

"Deep Learning In Cyber Security"

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012 MULTIPLE CHOICE OUESTIONS (25X1 = 25 Marks)

#### 1. Amongst which of the following are the primary goals of cyber security?

- A. Encryption, authorization, and availability
- B. Confidentiality, integrity, and authentication
- C. Firewalls, intrusion detection, and data backups
- D. Phishing prevention, malware detection, and span filtering

#### 2. The term "Cyber Threats" in cyber security refers to ...

- A. Techniques used by cybersecurity professionals to protect systems
- B. Malicious activities are carried out by hackers to breach firewalls.
- A Hardware components that are susceptible to cyber-attacks
- D. The process of encrypting sensitive data for secure transmission

#### 3. The process of encoding data to protect it from unauthorized access is known as

- A. Encryption
- B. Firewall
- C. Intrusion Detection
- D. Multi-factor Authentication

#### 4. Which of the following options best defines an attack vector in terms of cyber security?

- A. A software tool used by ethical hackers to test system vulnerabilities
- B. A technique to encrypt sensitive data during transmission
- A method or avenue used by cyber threats to gain unauthorized access to a system or network
- D. A hardware component that helps prevents denial-of-service attacks

#### 5. What is the significance of a firewall in cybersecurity?

- A. To prevent unauthorized physical access to a computer
- B. To detect and remove malware from a computer
- 2. To protect a computer from unauthorized network access
- D.' To encrypt sensitive data on a computer





## 6. Which of the following options correctly identifies the two primary types of encryption used in cybersecurity?

- A. Symmetric encryption and multi-factor authentication
- B. Asymmetric encryption and Private-key encryption
- C./Single-factor encryption and Decryption
- D. Symmetric encryption and Asymmetric encryption

### 7. Phishing is a type of cyber threat that involves

- A. Mimicking an authorized user to steal sensitive information
- B. Gaining unauthorized access to a system
- C. Local storage destruction
- D. Sending large amounts of fake traffic to a server

### 8. What does the term "Malware" stands for?

- A. Malfunctioning Software
- B.) Malicious Firmware
- C. Malfunctioning Hardware
- D. Malicious Software

## 9. Which of the following is an example of a cyber-attack on physical infrastructure?

- A. Phishing attack on employee's email
- B. DDoS attack on the company's server
- E. Stuxnet attack on an irrigation control system
- D. Ransomware attack on company's server

### 10. What does the term "VPN" stand for?

A. Virtual Personal Network

B. Virtual Private Network

Wirtual Portable Network

D. Virtual Public Network

Dr. G. Bałakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

## 11. Amongst which of the following shows the importance of regular data backups in cyber security?

- A. To protect against social engineering attacks
- B. To encrypt sensitive data during transmission
- C. To prevent unauthorized access to a network
- D. To ensure data recovery in case of data loss or cyber-attacks

## 12. Which of the following is a common type of social engineering attack?

- A. Brute force attack
- B. Distributed Denial of Service (DDoS) attack

Phichino attack



13. Which of the following is not a typical source of data leakage threats?

- A. Phishing attacks
- B. Insider threats
- **L**. Antivirus software
- D. Unsecured Wi-Fi networks



#### 14. Amongst which of the following is not an example of physical data leakage?

- A. Printer
- B. Using weak passwords for online accounts
- C. Dumpster diving
- D. Shoulder surfing

### 15. Safeguarding the data from unauthorized modification by unknown users is known as

- A. Integrity
- B. Confidentiality
- **C.** Availability
- D. Authenticity

## 4

#### 16. What occurs when integrity is lacking in a system?

- A. Data breaches and unauthorized access
- B. Loss of data due to hardware failure
- C. Encryption of sensitive information
- D. Secure transmission of data over the internet

4

17. Which one of the following is a common way to maintain data availability?

- A. Data Encryption
- B. Regular Data Backups
- C. Intrusion Detection Systems
- D. Multi-factor Authentication

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

18. Which of the following options is true about "Vulnerability"?

A. Vulnerability refers to the act of maliciously exploiting software flaws

- B. Yulnerability is a measure of the potential impact of a cyber-attack
- C. Vulnerability is a security mechanism used to protect computer systemsD. Vulnerability is a weakness or flaw in a system that could be exploited by threats

#### 19. Social engineering is \_\_\_\_\_.

- A. A software technique used to prevent unauthorized access to a system
- B. A method used to protect data from modification by unauthorized users
- C. A cybersecurity principle that focuses on data confidentiality
- D. A type of cyber-attack that manipulates human psychology to deceive individuals and gain unauthorized acces



20. What does the letter "A" stand for in the CIA triad of cybersecurity?

| Δ     | Authorization |
|-------|---------------|
| 4 3.4 | Aumonzanon    |

- B. Accessibility
- C. Authentication
- D. Anonymity

| 21. Which type of encryption uses the same key for l | both encryption and decryption? |
|--|---------------------------------|
|--|---------------------------------|

- A. Symmetric encryption
- B. Asymmetric encryption
- C. Hybrid encryption
- D. Public-key encryption

#### 22. PGP is primarily used for

- E. Network routing and packet filtering
- F. Securely transferring files over FTP
- 6. Encrypting and decrypting email messages
- H. Managing database access and permissions

### 23. Which of the following encryption standard is used to secure Internet communications?

- A. AES (Advanced Encryption Standard)
- B. RSA (Rivest-Shamir-Adleman)
- C. DES (Data Encryption Standard)
- D. MD5 (Message Digest Algorithm 5)

### 24. The process of converting ciphertext back into its original plaintext is known as \_\_\_\_\_.

- A. Encryption
- B. Decryption
- C. Phishing
- D. Hashing

### 25. Which key is kept private and known only to the owner in public-key encryption?

- A. Public key
- B. Secret key
- C. Private key
- D. Shared key

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Madural Main Road (NH-45B), Manikandam, Tiruchirappaili - 620 012
Approved by AlCTE, NewDellit & Affiliated to Anna University, Chemical NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Year/Sem:

**AU Register Number:** 

#### Value Added Course

"Digital marketing"

#### **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)**

| 1    | , social media,   | mobile apps, | and other | digital | channels | are all | examples | of ( | ligital |
|------|-------------------|--------------|-----------|---------|----------|---------|----------|------|---------|
| marl | keting used by co | mpanies and  | companies |         |          |         |          |      |         |

- A. Search Engines
- B. Websites
- C. Emails
- D. All of the above

#### 2. \_\_\_ are used in digital marketing.

- A. Electronic devices
- B. Internet
- C. Both A and B
- D. None of the above

#### 3. \_\_\_\_ is/are the main component(s) of digital marketing.

- A. SEO
- B. SMO
- C. SEM
- D. All of the above

#### 4. What is the full form of SEO?

- A. Search Engine Optimal
- B. Social Engine Optimization
- C. Search Engine Optimization
- D. Social Engine Optimal

#### 5. What is the full form of SEM?

- A. Social Engine Marketing
- B. Search Engine Marketing
- C. Search Engine Management
- D. Social Engine Management

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





Madurai Main Road (NH-459), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelli & Affiliated to Anna University, Chemini NAAC Accredited, 2(F) Status Institution by UGC

#### 6. What is the full form of SMO?

- A. Social Media Optimal
- B. Search Media Optimal
- C. Search Media Optimization
- D. Social Media Optimization

| 7. Ir | ı recent years, | digital market | ing has also | become more | reliant on |  |
|-------|-----------------|----------------|--------------|-------------|------------|--|
|-------|-----------------|----------------|--------------|-------------|------------|--|

- A. Email
- B. Affiliate
- C. Both A and B
- D. None of the above

8. Using \_\_\_\_\_, you improve your site's structure and content and conduct promotional activities to enhance your ranking on search engines.

- A. Search Engine Optimization
- B. Social Media Marketing
- C. Social Media Optimization
- D. Search Engine Marketing

#### 9. \_\_\_\_ is/are part(s) of SEO.

- A. Off-Page
- B. On-Page
- C. Both A and B
- D. None of the above

10. In On-Page SEO, website owners use various methods and measures within their own websites to improve their website's \_\_\_\_ on search engines.

- A. Pages
- B. Ranking
- C. Portal
- D. Dat

11. An on-page search engine optimization strategy involves dealing with elements of SEO within a website, such as \_\_\_\_\_\_, etc.

- A. Meta Tags
- B. Technical Tags
- C. Content Quality
- D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



D. None of the above

## Indra Ganesan



Madurai Main Road (NH-45B), Manikandem, Tiruchirappelli - 620 012
Appared by AICTE, NewDelhi & Affiliated to Anan University, Chermod
NAAC Accredited, 2(F) Status Institution by UCC

| 12. | The | important | On-Page | SEO | factor(s) | is/are - |
|-----|-----|-----------|---------|-----|-----------|----------|
|-----|-----|-----------|---------|-----|-----------|----------|

| A 2.6 + m  |
|--|
| A. Meta Tags   |
| B. Sitemap   |
| C. Canonical Tag   |
| D. All of the above  |
| 13 contain meta tags that contain information about their content.                           |
| A. Pages   |
| B. Sites   |
| C. Portals   |
| D. Browsers  |
| 14. The meta tags provide information about the  |
| A. Page  |
| B. Author  |
| C. When it was last updated  |
| D. All of the above  |
| 15. As Meta Tags help search engines the page, they are extremely important in terms of SEO. |
| A. Understand  |
| B. Index   |
| C. Both A and B  |
| D. None of the above   |
| 16. A HTML page's header section contains the tags, e.g., meta tag                           |
| A. <head ,="" <="" head=""></head>   |
| B. head>,  |
| C. <head>, </head>   |
| D. >head<,   |
|  |
| 17. These tags are not visible to users, but search engines can see them in order to         |
| A. Index your website  |
| B. Determine its ranking   |
| C. Both A and B  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering



1 1 1 1 1 1 1

# COLLEGE OF ENGINEERING Medurai Main Road (NH-458), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, New Delhil & Affiliated to Aram University, Chermal



| NAAC Ascredited, 2(F) Stat   | ne institution by UGC                   |
|--|---|
| 18. How many types of meta tags are there?                                 |   |
| A. 2   |   |
| B. 3   |   |
| C. 4   |   |
| D. 5   |   |
| 2.0  |   |
| 19. Which of the following is/are a/the type(s) of                         | meta tags?                              |
| A. Meta Title  |   |
| B. Meta Description Tag  |   |
| C. Meta Keywords Tag   |   |
| D. All of the above  |   |
| 20. The meta title is the title tag that also identifi                     | es the of your page.                    |
| A. Link  |   |
| B. Title   |   |
| C. Headline  |   |
| D. Description   |   |
| 21. In search engine results pages, meta are bar.                          | displayed in the browser window's title |
| A. Titles  |   |
| B. Description   |   |
| C. Keywords  |   |
| D. None of the above   |   |
| 22. Your page's meta summarizes its conten                                 | t.                                      |
| A. Title   |   |
| B. Description   |   |
| C. Keyword   |   |
| D. Tag   |   |
| 23. When a user submits a search query to a search appears below your URL. | h engine, the meta of your page         |
| <u> </u>   |   |

A. Title

B. Description

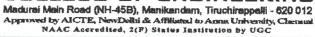
C. Tag

D. Keyword

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 @12.



#### COLLEGE OF ENGINEERING





| 24. All | your key | related to yo | our page's content | are included in | the meta tag |
|---------|----------|---------------|--------------------|-----------------|--------------|
|---------|----------|---------------|--------------------|-----------------|--------------|

- A. Keywords
- B. Description
- C. Tags
- D. Titles
- 25. A \_\_\_ page ranks higher in the search engine than a \_\_\_ one.
  - A. Long, short
  - B. Short, Long
  - C. Brief, Short
  - D. Brief, Long

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan

Medural Mein Roed (NH-45B), Menikendem, Tiruchirappelli - 620 012 Approved by AICTE, NewDelli & Affiliated to Anna University, Chemial NAAC Accredited, 2(F) Status Institution by UGC



### Value Added Course

"Digital marketing"

#### **ANSWER KEY**

| 1 | c | 6  | С | 11 | d | 16 | b | 21 | c |
|---|---|----|---|----|---|----|---|----|---|
| 2 | b | 7  | b | 12 | a | 17 | a | 22 | С |
| 3 | a | 8  | d | 13 | d | 18 | b | 23 | d |
| 4 | b | 9  | c | 14 | ь | 19 | С | 24 | b |
| 5 | d | 10 | b | 15 | a | 20 | a | 25 | a |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,



# Indra Ganesan

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDellul & Affiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



Name of the Student:

Abinaya. R

Year/Sem:

1

**AU Register Number:** 

Value Added Course

"Digital marketing"

#### **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)**

| 25 |
|----|
|    |

- 2. \_\_\_\_ are used in digital marketing.
  - A. Electronic devices
  - B. Internet
  - C. Both A and B
  - D. None of the above
- 3. \_\_\_\_ is/are the main component(s) of digital marketing.
  - A. SEO
  - B. SMO
  - C. SEM
  - D. All of the above
- 4. What is the full form of SEO?
  - A. Search Engine Optimal
  - (B.) Social Engine Optimization
  - C. Search Engine Optimization
  - D. Social Engine Optimal
- 5. What is the full form of SEM?
  - A. Social Engine Marketing
  - B. Search Engine Marketing
  - C. Search Engine Management
  - D. Social Engine Managemen

Dr. G. Balakrishnan, M.S., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012:



All of the above

# Indra Ganesan COLLEGE OF ENGINEERING Medural Main Pared (NH-455) Menikendern Tiruchirannelli - 620 012



Medural Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NevDelhi & Affiliated to Anna University, Clarausi NAAC Accredited, 2(F) Status Institution by UGC

| 6. What is the full form of SMO?  |
|---|
| A. Social Media Optimal B. Search Media Optimal C. Search Media Optimization D. Social Media Optimization                                   |
| 7. In recent years, digital marketing has also become more reliant on   |
| A. Email B. Affiliate C. Both A and B D. None of the above  |
| 8. Using, you improve your site's structure and content and conduct promotional activities to enhance your ranking on search engines.       |
| A. Search Engine Optimization B. Social Media Marketing C. Social Media Optimization D. Search Engine Marketing                             |
| 9 is/are part(s) of SEO.  |
| A. Off-Page B. On-Page C. Both A and B D. None of the above   |
| 10. In On-Page SEO, website owners use various methods and measures within their own websites to improve their website's on search engines. |
| A. Pages B. Ranking C. Portal D. Data   |
| 11. An on-page search engine optimization strategy involves dealing with elements of SEO within a website, such as, etc.                    |
| A. Meta Tags B. Technical Tags C. Content Quality   |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

| 12. The important On-Page SEO factor(s) is/are -   |
|--|
| A. Meta Tags B. Sitemap C. Canonical Tag D. All of the above                                 |
| 13 contain meta tags that contain information about their content.                           |
| A. Pages B. Sites C. Portals D. Browsers   |
| 14. The meta tags provide information about the  |
| A Page B Author C. When it was last updated D. All of the above                              |
| 15. As Meta Tags help search engines the page, they are extremely important in terms of SEO. |
| A. Understand B. Index C. Both A and B D. None of the above                                  |
| 16. A HTML page's header section contains the tags, e.g., meta tag                           |
| A. <head ,="" <="" head=""> B. head&gt; , </head> C. <head> , </head> D. >head< ,            |
| 17. These tags are not visible to users, but search engines can see them in order to         |
|  |

A. Index your website
B. Determine its ranking

C. Both A and B

D. None of the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



C. Tag D. Keyword







#### 18. How many types of meta tags are there?

| A. 2<br>B. 3<br>C. 4<br>D. 5   |
|--|
| 19. Which of the following is/are a/the type(s) of meta tags?  |
| A. Meta Title B. Meta Description Tag C. Meta Keywords Tag D. All of the above                           |
| 20. The meta title is the title tag that also identifies the of your page.                               |
| A. Link B. Title C. Headline D. Description  |
| 21. In search engine results pages, meta are displayed in the browser window's title bar.                |
| A. Titles B. Description C. Keywords D. None of the above  |
| 22. Your page's meta summarizes its content.   |
| A. Title B. Description C. Keyword D. Tag  |
| 23. When a user submits a search query to a search engine, the meta of your page appears below your URL. |
| A. Title B. Description  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan

#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Aftiliated to Anna University, Chennal NAAC Accredited, 2(F) Status Institution by UGC



24. All your key \_\_\_\_ related to your page's content are included in the meta tag.

A. Keywords

B Description

C. Tags

D. Titles

25. A \_\_\_ page ranks higher in the search engine than a \_\_\_ one.

A. Long, short

B. Short, Long

C. Brief, Short

D Brief, Long

Du C. Polokvichnan

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



# Indra Ganesan

#### COLLEGE OF ENGINEERING

Madurzi Main Road (NH-45B), Manikandam, Tiruchirappali - 620 012 Apparwed by AICTE, NewDelhi & Affiliated to Arma University, Chemnal NAAC Accredited, 2(F) Status Institution by UCC



Name of the Student : AU Register Number:

Year/Sem:

#### ASSESSMENTQUESTIONS(1X100=100 Marks)

#### A) Mock Interview

| Description         | Marks |
|---------------------|-------|
| ResumePresentation  | 20    |
| InterpersonalSkills | 20    |
| BodyLanguage        | 10    |
| Total               | 50    |

#### B)Presentation

| Description            | Marks |
|------------------------|-------|
| PowerpointPresentation | 20    |
| CommunicationSkills    | 20    |
| SessionHandling        | 10    |
| Total                  | 50    |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



OF Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Advanced surveying"

### MCQ QUESTIONS (25X4 = 100 Marks)

#### 1. What is Surveying?

- a) Surveying is used to find the elevations of given points with respect to given or assumed datum
- b) Surveying shows the relative positions of the objects on the surface of the earth
- c) Surveying is to find the elevation of points having the same contour interval
- d) All of the mentioned

## 2. Which of the following is the first principle of surveying?

- a) Whole to whole
- b) Part to part
- c) Part to whole
- d) Whole to part

Dr. G. Balakrishnan, M.E., Pn.D. Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy-620 012.

# 3. Which of the following type of surveying is used for exploring mineral wealth?

- a) Military surveying
- b) Mine surveying
- c) Topographic surveying
- d) Engineering surveying

# 4. In which of the following type of surveying only linear measurements are made?

- a) Dumpy level
- b) Theodolite surveying
- c) Chain surveying
- d) Contouring

# 5. Which of the following classification in surveying is based on the instrument used?

- a) Traverse surveying
- b) Cadastral surveying
- c) Topographic surveying
- d) Hydrographic surveying



- 6. In which of the following areas does compass surveying is not recommended?
  - a) Large areas
  - b) Undulating areas
  - c) Crowded with many details
  - d) Local attraction suspected areas
- 7. In which of the following cases compass surveying is recommended?
  - a) When area is small, undulating and not details are crowded
  - b) When area is large, undulating and crowded with many details
  - c) When area is small, even and crowded with many details
  - d) When area is large, even and crowded with many details
- Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy-620 012.
- 8. Which of the following is not required for chain surveying?
  - a) Dumpy level
  - b) Pegs
  - c) Arrows
  - d) 20 m chain
- 9. Which of the following is the last step in chain surveying?
  - a) Fixing
  - b) Reconnaissance
  - c) Running survey lines
  - d) Marking
- 10. Which of the following cannot be done with the help of theodolite in surveying?
  - a) Measuring horizontal distances
  - b) Prolonging survey lines
  - c) Laying off horizontal angles
  - d) Locating points on lines
- 11. Which of the following is an indirect method of surveying?
  - a) Countouring
  - b) Chain surveying
  - c) Tacheometry
  - d) All of the mentioned



- 12. Which of the following branch of surveying is used to find the elevations of given points with respect to given or assumed datum?
  - a) Plane table surveying
  - b) Traversing
  - c) Contouring
  - d) Levelling
- 13. Which of the following is the principles of surveying?
  - a) Covering the entire area
  - b) Working from whole to part
  - c) Taking measurements
  - d) Determining the elevation differences

Dr. G. Balakrishnan, M.E., Ph.D.,

- 14. Which of the following surveying methods is meant to be having high precision?
  - a) Terrestrial photogrammetry
  - b) Traverse surveying
  - c) Aerial photogrammetry
  - d) Theodolite surveying
- 15. Which of the following doesn't describe the use of hydrographic surveying?
  - a) Nautical charts for navigation
  - b) Establishing mean sea level
  - c) Laying an Alignment
  - d) Making underground investigations
- 16. Which of the following type of ranging is done if both ends of surveying lines are visible?
  - a) Indirect
  - b) Reciprocal
  - c) Unable to do
  - d) Direct
- 17. Which of the following is not a method of levelling?
  - a) Spirit levelling
  - b) Traverse levelling



### ENGINEERING

Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- c) Barometric levelling
- d) Trigonometric levelling
- 18. In which of the following type of surveying in the mean surface of the earth is considered as a plane and the spheroidal shape is neglected?
  - a) Plane Surveying
  - b) Geodetic Surveying
  - c) Hydrographic Surveying
  - d) Topographic Surveying

19. Which of the following doesn't involve the method of traversing

- a) Plane Table surveying
- b) Tacheometric surveying
- c) Chain surveying
- d) Theodolite surveying\

Dr. G. Balakrishnan, M.E., Ph.J. Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

20. Which of the following is not a method of plane table surveying?

- a) Trisection
- b) Intersection
- c) Resection
- d) Radiation
- 21. While taking Observations for the height and distances, which of the following method of surveying is used?
  - a) Plane surveying
  - b) Geodic surveying
  - c) Chain surveying
  - d) Compass surveying
- 22. Which of the following type of surveying can be employed in a magnetic area?
  - a) Compass surveying
  - b) Traverse surveying
  - c) Plane table surveying
  - d) Theodolite surveying
- 23. Which of the following survey deals with bodies of water for the purpose of navigation, water supply, harbor works or for the determination of mean sea level?
  - a) City surveying



#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- b) Cadastral surveying
- c) Topographic surveying
- d) Hydrographic surveying
- 24. Determining points of strategic importance are called \_\_\_\_\_
  - a) Traverse surveying
  - b) Military surveying
  - c) City surveying
  - d) Topographic surveying
- 25. Which of the following is not a natural error in compass surveying?
  - a) Local attraction due to the proximity of local attraction forces
  - b) Pivot being bent
  - c) Magnetic changes in the atmosphere due to clouds and Strom's
  - d) Variation in declination

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

VAC Coordinator

HOD/CIVIL



#### OF ENGINEERING COLLEGE

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Value Added Course on Advanced surveying

#### ANSWER KEY

| 1 | b | 6  | d | 11 | С | 16 | d | 21 | b |
|---|---|----|---|----|---|----|---|----|---|
| 2 | d | 7  | b | 12 | d | 17 | b | 22 | С |
| 3 | b | 8  | a | 13 | b | 18 | a | 23 | d |
| 4 | c | 9  | c | 14 | С | 19 | ъ | 24 | b |
| 5 | a | 10 | a | 15 | b | 20 | a | 25 | Ъ |

Dr. G. Balakrishnan, M.E., Ph.J., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 812.

**VAC Coordinato** 

R. vignosh 8112 19103 002 TYR

1, d, all of the above :

2, d, whole to part w

3, b, Mine Surveying

4, e, chain during

5, a, Traverse & wurying

6, a, large areas.

7, C, when assea is small, even and arounded with many

8, a, Dumpy Level:

9, C, Running survey line:

10, a, Laying off hosingental?

11, c, Tacheometry.

12, d, leveling.

13, C, Taking measurements.

Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy-620 012.

14, C, April photogrammetery.

15, C. Laying on Alignment X

16, d, direct.

17, b. Traverse leveling.

18, a, plane observeying

19, b, Tachameteric Swerneying.
20, a, Trisection

21, b, Dreodic Sourcying.

22, c, Plane dalle Scorreying

23, a, city swerreying.

24, b, Military Swerreying.

25, b, Pivot heing hent.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madural Main Road

Inanitanuam, Enchy-620 012.

1.

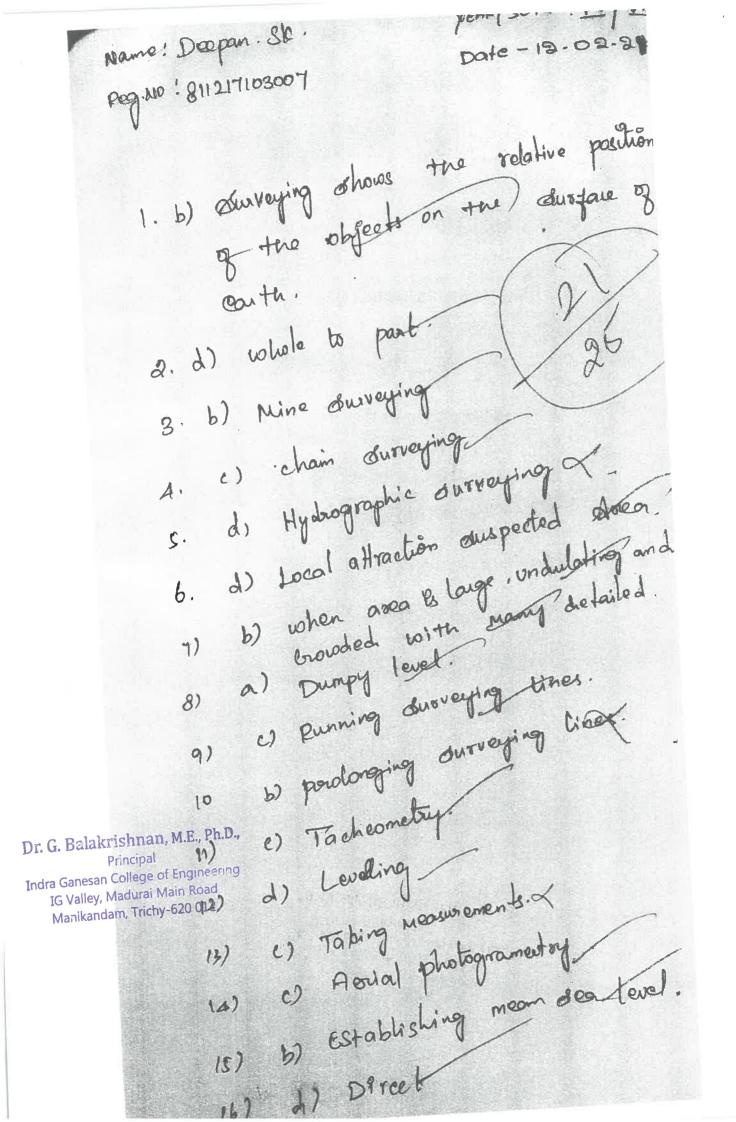
بوليه

15/08/31 M. Mahendran 811218103002 Manikandam, Trichy-620 012. II you IG Valley, Madurai Main Road Indra Ganesan College of Engineering b) gwiveying shows the relavations positions of the objects on the swifate of the earth Dr. G. Balakrishnan, M.E., Ph.D., d) whole to Part b) mine surveying C) Chain Swiveying a) Traverse Surveying a) Large areas of b) when area 1°3 large undulating and (nowded with many details

Dumpy Leval a) Fixing & d) locating points on lines of c) Tacheometry d) Levelling b) wooding from whole to Port

| 12 | (c) Berial Photogrammetry       |
|----|---------------------------------|
| 15 | b) Establishing mean sea leval. |
| 16 | d)Diorect                       |
| 17 | b) Traverse levelling           |
|    | a) Plane Surveying              |
| 19 | b) Tacheometric Swiveying       |
|    | a) Trisection                   |
|    | b) breodic surveying            |
| 22 | C) Plane table Surveying        |
| 23 | d) Hydrographie Surveying       |
| 24 | C) City surveying               |
| 25 | b) Pivot being bent             |
|    |                                 |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



| 1) b) Traverse levelling      |
|-------------------------------|
| 18) a) plane durveying        |
| 19) b) Tacheometric surveying |
| 20) 9) Tol section.           |
| al) b) Geodic durveying       |
| 00) a) compars durveying      |
| 23) d) Hydrographic durvey    |
| 24) by whitery durvey         |
| 25) b) prot being bent        |

(D):/

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-629 812.

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Machine learning with R"

#### MCO QUESTIONS (25X4 = 100 Marks)

- 1. R was created by?
  - a) Ross Ihaka
  - b) Robert Gentleman
  - c) Both A and B
  - d) Ross Gentleman
- 2. R allows integration with the procedures written in the?
  - a) C
  - b) Ruby
  - c) Java
  - d) Basic
- 3. R is free software distributed under a GNU-style copy left, and an official part of the GNU project called?
  - a) GNU A
  - b) GNU S
  - c) GNU L
  - d) GNU R
- 4. R made its first appearance in?
  - A. 1992
  - B. 1995
  - C. 1993
  - D. 1994
- 5. Which of the following is true about R?
- A. R is a well-developed, simple and effective programming language
- B. R has an effective data handling and storage facility
- C. R provides a large, coherent and integrated collection of tools for data analysis
- D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

| 6. Point out the wrong statement?   |   |
|---|---|
| A. Setting up a workstation to take full advantage of the customizable features of R is straightforward thing B. q() is used to quit the R program C. R has an inbuilt help facility similar to the man facility of UNIX D. Windows versions of R have other optional help systems also | a |
| 7. Command lines entered at the console are limited to about bytes  |   |
| A. 4095   |   |
| B. 4096   |   |
| C. 4097   |   |
| D. 4098   |   |
| 8. R language is a dialect of which of the following languages?   |   |
| A. s  |   |
| B. c  |   |
| C. sas  |   |

#### 9. How many atomic vector types does R have?

A. 3 B. 4 C. 5 D. 6

#### 10. R files has an extension .

A. S B. RP C. R D. SP

## 11. How do you start writing an if statement in R?

A) if (x > y)

D. matlab

B) if x > y:

C) if x > y then:

D) None of the above

12.\_\_\_\_ is simplest class of analytics.

A)Predictive

B)Prescriptive

C)Summarization

D)Descriptive

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 13 is proprietary tool for predictive and A)R B)EDR C)SAS D)SSAS   | alytics.   |
|--|--|
| <ul> <li>14. Among the following which is not a horn clau</li> <li>a) p</li> <li>b) Øp V q</li> <li>c) p → q</li> <li>d) p → Øq</li> </ul>   | se?  |
| 15. What is the purpose of regularization in mach  | nine learning?   |
| <ul><li>a) To reduce the number of features in a model</li><li>b) To prevent overfitting and improve generalization</li><li>c) To speed up the training process</li><li>d) To increase the accuracy of the model</li></ul> |  |
| 16. Which of the following is an example of a semi   | i-supervised learning problem?   |
| <ul><li>a) Image classification</li><li>b) Object detection</li><li>c) Text clustering</li><li>d) Speech recognition\</li></ul>  |  |
| 17. Which of the following is a common regulariza  | tion technique for linear regression   |
| <ul><li>a) L1 regularization (Lasso)</li><li>b) L2 regularization (Ridge)</li><li>c) Dropout</li><li>d) Batch normalization</li></ul>  | į  |
| 18. Which of the following is a common approach problem?   | to solving a time series forecasting   |
| <ul><li>a) ARIMA models</li><li>b) Exponential smoothing</li><li>c) Recurrent neural networks</li><li>d) All of the above</li></ul>  | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering |
| 19. Which of the following is a common activation  | IO Valley, Madurai Main Dood   |
| a) Sigmoid   |  |

b) Linearc) Exponential

d) Quadratic

#### 20. Which of the following is an example of an unsupervised learning problem?

- a) Predicting the stock market
- b) Recommending products to users
- c) Spam filtering
- d) Sentiment analysis

#### 21. Which of the following is a disadvantage of decision trees?

- A. Factor analysis
- B. Decision trees are robust to outliers
- C. Decision trees are prone to be overfit
- D. None of the above

#### 22. How do you handle missing or corrupted data in a dataset?

- A. Drop missing rows or columns
- B. Replace missing values with mean/median/mode
- C. Assign a unique category to missing values
- D. All of the above

# 23. When performing regression or classification, which of the following is the correct way to preprocess the data?

- A. Normalize the data -> PCA -> training
- B. PCA -> normalize PCA output -> training
- C. Normalize the data -> PCA -> normalize PCA output -> training
- D. None of the above

### 24. Which of the following statements about regularization is not correct?

- A. Using too large a value of lambda can cause your hypothesis to underfit the data.
- B. Using too large a value of lambda can cause your hypothesis to overfit the data
- C. Using a very large value of lambda cannot hurt the performance of your hypothesis.
- D. None of the above

#### 25. What is a sentence parser typically used for?

- A. It is used to parse sentences to check if they are utf-8 compliant.
- B. It is used to parse sentences to derive their most likely syntax tree structure
- C. It is used to parse sentences to assign POS tags to all tokens.
- D. It is used to check if sentences can be parsed into meaningful tokens.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikanda

Manikandam, Trichy-620

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Machine learning with R"

### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. R was created by?
  - a) Ross Ihaka
  - b) Robert Gentleman
  - c) Both A and B
  - d) Ross Gentleman
- 2. R allows integration with the procedures written in the?
  - a) C
  - b) Ruby
  - c) Java
  - d) Basic
- 3. R is free software distributed under a GNU-style copy left, and an official part of the GNU project called?
  - a) GNU A
  - b) GNU S
  - c) GNU L
  - d) GNUR
- 4. R made its first appearance in?
  - A. 1992
  - B. 1995
  - C. 1993
  - D. 1994
- 5. Which of the following is true about R?
- A. R is a well-developed, simple and effective programming language
- B. R has an effective data handling and storage facility
- C. R provides a large, coherent and integrated collection of tools for data analysis.
- D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D., Principal

#### 6. Point out the wrong statement?

| A. Setting up a workstation to take full advantage of the customizable features of R is a |
|---|
| straightforward thing   |
| B. q() is used to quit the R program  |
| C. P. has an inhvilt halm facility similar of   |
| C. R has an inbuilt help facility similar to the man facility of UNIX                     |
| D. Windows versions of R have other optional help systems also                            |
| 7. Command lines entered at the console are limited to about bytes                        |
| A. 4095   |
| B. 4096   |
| C. 4097   |
| D. 4098   |
|   |
| 8. R language is a dialect of which of the following languages?                           |
| A. s  |
| В. с  |
| C. sas  |
| D. matlab   |
|   |
| 9. How many atomic vector types does R have?  |
| A 29  |
| A. 3  |
| B. 4  |
| C. 5  |
| D. 6  |
| 10. R files has an extension  |
| A. S  |
| B. RP   |
| C. R  |
| D. SP   |
| II How do you start multi-  |
| 11. How do you start writing an if statement in R?  A) if (x > y)                         |
| B) if $x > y$ :   |
| C) if $x > y$ then:   |
| D) None of the above  |
| D) None of the above  |
| 12 is simplest class of analytics.  |
| A)Predictive  |
| B)Prescriptive  |
| C)Summarization   |
| D)Descriptive   |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 13     | is | proprietary | tool | for | predictive | analytics. |
|--------|----|-------------|------|-----|------------|------------|
| A)R    |    |             |      |     | ^          | •          |
| B)EDR  |    |             |      |     |            |            |
| C)SAS  |    |             |      |     |            |            |
| D)SSAS |    |             |      |     |            |            |

#### 14. Among the following which is not a horn clause?

- a) p
- b) Øp V q
- c)  $p \rightarrow q$
- d)  $p \rightarrow \emptyset q$

#### 15. What is the purpose of regularization in machine learning?

- a) To reduce the number of features in a model
- b) To prevent overfitting and improve generalization
- c) To speed up the training process
- d) To increase the accuracy of the model

#### 16. Which of the following is an example of a semi-supervised learning problem?

- a) Image classification
- b) Object detection
- c) Text clustering
- d) Speech recognition\

#### 17. Which of the following is a common regularization technique for linear regression?

- a) L1 regularization (Lasso)
- b) L2 regularization (Ridge)
- c) Dropout
- d) Batch normalization

# 18. Which of the following is a common approach to solving a time series forecasting problem?

- a) ARIMA models
- b) Exponential smoothing
- c) Recurrent neural networks
- d) All of the above

#### 19. Which of the following is a common activation function used in deep learning?

- a) Sigmoid
- b) Linear
- c) Exponential

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



d) Quadratic

## 20. Which of the following is an example of an unsupervised learning problem?

- a) Predicting the stock market
- b) Recommending products to users
- c) Spam filtering
- d) Sentiment analysis

#### 21. Which of the following is a disadvantage of decision trees?

- A. Factor analysis
- B. Decision trees are robust to outliers
- C. Decision trees are prone to be overfit
- D. None of the above

#### 22. How do you handle missing or corrupted data in a dataset?

- A. Drop missing rows or columns
- B. Replace missing values with mean/median/mode
- C. Assign a unique category to missing values
- D. All of the above

# 23. When performing regression or classification, which of the following is the correct way to preprocess the data?

- A. Normalize the data -> PCA -> training
- B. PCA -> normalize PCA output -> training
- C. Normalize the data -> PCA -> normalize PCA output -> training
- D. None of the above

### 24. Which of the following statements about regularization is not correct?

- A. Using too large a value of lambda can cause your hypothesis to underfit the data.
- B. Using too large a value of lambda can cause your hypothesis to overfit the data
- C. Using a very large value of lambda cannot hurt the performance of your hypothesis.
- D. None of the above

#### 25. What is a sentence parser typically used for?

- A. It is used to parse sentences to check if they are utf-8 compliant.
- B. It is used to parse sentences to derive their most likely syntax tree structures.
- C. It is used to parse sentences to assign POS tags to all tokens.
- D. It is used to check if sentences can be parsed into meaningful tokens.

Dr. G. Balakrishnan, M.E., Ph.D., Principal



#### Value Added Course

### "Machine learning with R"

#### ANSWER KEY

| 1 | C | 6  | В | 11 | C | 16 | C | 21 | A |
|---|---|----|---|----|---|----|---|----|---|
| 2 | A | 7  | A | 12 | В | 17 | В | 22 | C |
| 3 | В | 8  | A | 13 | A | 18 | A | 23 | С |
| 4 | С | 9  | В | 14 | В | 19 | Α | 24 | В |
| 5 | D | 10 | С | 15 | C | 20 | С | 25 | В |

(D:

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. VAC Coordinator

PRINCY DEEPAX
811217 104014
Machine Learning with R

| 1. c) Both A and B  |
|---|
| 2 (4)c / 25)  |
| 3 B) CHNUS  |
| 4 (2) 1993  |
| 5 D) All of the above   |
| 6 B) 9(0) is used to quit the R program   |
| 7 A) 4095   |
| 8 A) S  |
| 9 B) 4  |
| 10 c) R   |
| 11 c) if x >y then  |
| 12 B) prescriptive  |
| 13 A) R   |
| 14 B) & P Vq  |
| 15 C) To speed up the fraining Process  |
| 16 c) Text clustering   |
| 17 B) L2 regularization (Ridge)   |
| 18 A) A RIMA models  Dr. G. Balakrishnan, M.E., Ph.D.                                     |
| 19 A) Sigmoid (College of Engineering   |
| 20 C) Spain fillowing Manikandam, Trichy-620 012.   |
| 20 C) Spam fillowing Manikandam, Trichy-620 012.  21 A) Factor analysis                   |
| 22 C) Decision Assign a unique cologory to missing values                                 |
| 23 D) None of the above   |
| 24 D) None of the above   |
| 24 D) None of the above<br>25 A) It is used to Pourse sentences to check if they are ulls |

5) 6) 01 of the above - () 6) 910) is used to quit the R program 3) B)GNU 5 ALOGE J P) Ross I haka X

e) of a my then:

e) of pres captine

13) A) R

14) 8) \$P 18 1
15) C) To speed up the having process
15) B) 18 regular galant Riche
16) C) Tout churching Riche
16) B) Sopran fillering
16) C) Spain fillering
16) C) Spain fillering
17) B) Hone of the above
18) D) None of the above
18) B) H is cused to purse send ences to check if they
18) B) H is cused to purse send ences to check if they

27 Csp 81249104011

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Name of the Student:

Year/Sem:

AU Register Number:

## Value Added Course

"IoT-Raspberry Pi"

# MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

| 1. The Raspberry | Pi is defined | as the             | MAG-6-               |  |
|------------------|---------------|--------------------|----------------------|--|
| a) Micro         | Computer      | b) Mega Compute    | r c) Minicomput      | er d) Nano Computer  |
| 2. Raspbian is   |               |                    |                      |  |
|                  |               | guage c) Compil    |                      |  |
| 3. Raspherry Pi  | consists of a | quad-core          | processor or micro   | processor.   |
| a) 16-bit        | b) 32-b       | oit c) 64-bit      | d) 128-bit           |  |
| 4. The Raspberr  | y Pi has a    | interface          | to allow it to perfo | rm serial data   |
| a) UART          | b) GPI        | o e) I2C           | d) SPI               |  |
| 5. How many US   | B ports are p | present in Raspber | ry Pi 3?             |  |
| a) 5             | o) 2 c) 4     | d) 3               |                      |  |
| 6. What bit pro  | essor is used | in Pi 3?           |                      |  |
| a) 64-bit        | b) 32-l       | bit c) 128-bi      | t d) Both 64 an      | d 32 bit   |
| 7. What is the s | peed of opera | tion in Pi 3?      |                      | l a  |
| a) 900M          |               |                    | d) 500MHz            |  |
| 8. What is the E | thernet/LAN   | cable used in RPi  | ?                    | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| a) Cat5          | A             |                    | d) RJ45              | Principal Indra Ganesan Collins  |
| 9. How many I    | put/output p  | ins on board Rasp  | berry Pi3 has?       | Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam Talah |
| a) 20            | b) 30         |                    | d) 50                | Manikandam, Trichy-620 012.  |
| 10. How much     | RAM, the Ra   | spberry Pi has?    |                      |  |
|                  | of RAM        | b) 1GiB of RAM     | c) 4GiB of R         | AM d) 8GiB of RAM  |



| NAME OF TAXABLE PARTY.        |                      |                   |  |
|-------------------------------|----------------------|-------------------|--|
| 11. What is the maximum peri  | oheral current drav  | w allowed in Ra   | spberry Pi 3?  |
|                               | b) 700 mA            | c) 500 mA         | d) 100 mA  |
| 12. What does GPIO stand for  | ?                    |                   |  |
| a) General Purpose Inne       |                      |                   | Purpose Input Output Pins  |
| c) Generally Powered Ir       | put Output Pins      | d) General        | Purpose Input Output Processor                                   |
| 13. What do we use to connect | TV to RPi?           |                   |  |
| a) Male HDMI                  | b) Female I          | HDMI              |  |
| c) Male HDMI and Ada          | pter d) Female 1     | HDMI and Adap     | ter  |
| 14. Data collected by Raspber | ry Pi from the sens  | or can be         |  |
| a) Processed in Raspber       |                      | other devices cor | nnected to the network   |
| c) Used to control/activ      | ate other devices in | the network d)    | All of the above   |
| 15. Which operating system F  | taspberry Pi has?    |                   |  |
| a) Linux                      |                      | Net BSD d)        | All of the above   |
| 6. How power supply is done   | to RPi?              |                   |  |
| a) USB connection             | b) Internal battery  | c) Charger        | d) Adapter   |
| 17. What are the mode(s) use  | d for addressing th  | e pins in Raspb   | erry Pi?   |
| a) GPI b) BC                  |                      | D & BCM d)        | GPIO, BCIM & CAN   |
| 18. What are the parameters   | that are default va  | lues?             |  |
| a) Port Name and Bits         |                      | and Port Names    |  |
| c) Speed and Parity           | d) Stop bi           | it and Flow Cont  | rol  |
| 19. The BCM 14 pin of Rasp    | berry Pi is          |                   |  |
| a) Physical pin 8             | b) UART              | Dr.               | G. Balakrishnan, M.E., Ph.D., Principal                          |
| c) Transmitter pin            | d) All of the abov   | re Indi           | a Ganesan College of Engineering<br>IG Valley, Madurai Main Road |
| 20. What is the command us    | ed for easy using o  | f GNU screen?     | Manikandani, Trichy-620 012.                                     |
| a) \$user add -G {dial        |                      |                   | Port_Name115200  |

c) Minicom -b 115200 -o -D Port Name

d) Prompt> # help

## 21. The Raspberry Pi is defined as the?

- a) Minicomputer
- b) Micro Computer
- c) Mega Computer
- d) Nano Computer

# 22. Which instruction set architecture is used in Raspberry Pi?

- a) X86
- b) MSP
- c) AVR
- d) ARM

## 23. Which instruction set is used in Raspberry Pi?

- a) CISC
- b) RISC
- c) MIPS
- d) None of these mentioned

# 24. Which of the following variants of Raspberry Pi has an inbuilt wi-fi?

- a) Raspberry Pi 2
- b) Raspberry Pi 3
- c) Raspberry Pi A+
- d) Raspberry Pi Zero

# 25. Which of the following is a not type of Raspberry Pi?

- a) Raspberry Pi Alternatives
- b) Raspberry Pi Zero W
- c) Raspberry Pi 3 Model B+
- d) Raspberry Pi 3 Model A+

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 



#### Value Added Course

### "IoT-Raspberry Pi"

#### ANSWER KEY

|   |   |    |   |    | and an approximation. |    |   |    |   |
|---|---|----|---|----|-----------------------|----|---|----|---|
| 1 | С | 6  | a | 11 | a                     | 16 | а | 21 | a |
| 2 | đ | 7  | b | 12 | ь                     | 17 | c | 22 | d |
| 3 | c | 8  | d | 13 | С                     | 18 | b | 23 | c |
| 4 | a | 9  | c | 14 | d                     | 19 | d | 24 | b |
| 5 | c | 10 | b | 15 | d                     | 20 | b | 25 | d |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

1212121

ARULRASIA 811219105001 Ilya (II sem

1. () Wentumputer

2. d) as

3, c) by - bet

4. b) GPE

5. C) W

6- a) 64-684

7. b) 1.201 tz

8. d) RJ48

9. 2) 50

10. b) 161 18 06 RAM

(1. a) 1209 Ma

12 b) be eres al spropose input output pin

13. C) Have HOMI and Adapter

(H. b) sont to other porties computed to the notineets

15. d) All of above

16. a) USB connection

IT () Board & BLAG

18 b) speed and Rout Name

19 ( ) Transmitte pole

201 B) & seen post - Name MESSOO.

21. b) Hini compacted

22, d) RAM

28 . C) MIRS

all c) Rosphorous Brot

25. d) Roupberry P: anddel A+

(25)

Dr. G. Bałakrishnan, M.E., Ph.D., Principal

12.2.21

WOOTA Ragaran A
81121810 5009

ITT year EEE (5 sin

1) c) Minicompleter

2) d) 03/

- (3) b) 32-bit
  - 4) a) WART
  - 5) c) 41
  - 6) a) 64 bit
  - 7) c) 1040
  - 8) d) R345
  - 9) () 40
  - 10) 6) 1618 8 8AM
  - 11) a) 1200 MA
  - (2) a) General purpose uner outer propeller
  - 13) c) Male Homi and Apopter
  - 4) d) All of the About
  - 15) d) All of the About
- .16) b) internal battley
  - (4) () Board & Boot
- 18) b) speed and porte nomes
- 19) d) All of the above
- 20) b) screen port\_ work 15200
- is) of Minicompleter
- 22) d) A Amy
- 23) c) mups
- 24) b) Rasborny RY3
- 25) d) Rasborry pizerodal A+

(25)

0

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

|       | ToT-Raspboni               | Name Konthana S  |
|-------|----------------------------|--|
|       |                            | Reg No. 8112171 050  |
|       |                            | Your Isam: IV Ya. 107.   |
| 1.0   | Mini computes              |  |
| 2 d   | 08                         | (19)   |
| -3.c  | 64-64                      |  |
| 4.6   | GPTOX                      | 125/   |
|       | 4.                         |  |
| 6. a  | 69-bit                     |  |
|       | 12 Gotto                   |  |
|       | RJUS                       |  |
|       | 50-                        |  |
|       | I GIB & RAM                |  |
|       |                            |  |
|       | . 1200 Ma                  |  |
| 12 6  | General purpose Input outp |  |
| 13 C  | make Hamit and Alapti      |  |
| 14.6  | . Sent to other devices    | Connected to the netwo   |
| 150   | All of the oboic           |  |
| 16.19 | USB coonetion              |  |
| 14 0  | BodRAD & Boom              | Dr. G. Balakrishnan, M.E.,                                     |
|       |                            | Principal  |
| 18/b  | Speed and part Name.       | Indra Ganesan College of Engine<br>IG Valley, Madurai Main Roa |
| 19.0  | Transmitter pio            | Manikandam, Trichy-620 01                                      |

Name of the Student:

Year/Sem:

**AU Register Number:** 

c) links

## Value Added Course

#### "ARDI IINO PROGRAMMINO"

| ANDOINO PROGRAMM  | UNG"  |
|---|---|
| <b>MULTIPLE CHOICE OUESTIONS (2</b>   | 25X1 = 25 Marks)  |
| <ol> <li>What is Arduino?</li> <li>Programming language</li> <li>Image editing software</li> <li>Open-source electronics platform</li> <li>Text editor</li> </ol> |   |
| <ul><li>2. How many types of Arduino do we have?</li><li>a) 4</li><li>b) 8</li><li>c) 12</li><li>d) 16</li></ul>  |   |
| <ul> <li>3. What language is a typical Arduino code based on?</li> <li>a) Assembly Code</li> <li>b) Python</li> <li>c) Java</li> <li>d) C/C++</li> </ul>          |   |
| <ul> <li>4. Arduino shields are also called as</li></ul>  |   |
| <ul><li>5. What language is the Arduino IDE built on?</li><li>a) Java</li><li>b) HTML</li><li>c) C/C++</li><li>d) Python</li></ul>                                |   |
| <ul><li>6. How many analog pins are used in Arduino Mega board?</li><li>a) 12</li><li>b) 16</li><li>c) 8</li><li>d) 14</li></ul>                                  |   |
| 7. Arduino IDE consists of 2 functions. What are they?  |   |
| a) Loop() and build() and setup() b) Build() and loop() c) Setup() and build() d) Setup() and loop()  | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 8. Arduino Codes are referred to as in the Arduino a) sketches b) drawings  |   |



- 9. What is the default bootloader of the Arduino UNO?
- a) AIR-boot
- b) GAG
- c) Optiboot bootloader
- d) Bare box
- 10. What does p refer to in ATmega328p?
- a) Programmable on chip
- b) Power-Pico
- c) Production
- d) Pico-Power
- 11. What is the use of the Arduino.h header file?
- a) It enables the programmer to access all of Arduino's core functionality
- b) It doesn't have any use and can be omitted at any point of time in the code
- c) It gives root access to the microcontroller's file system
- d) It allows other people to create libraries for the Arduino code
- 12. What is the use of the Vin pin present on some Arduino Boards?
- a) To ground the Arduino Board
- b) To power the Arduino Board
- c) To provide a 5V output
- d) Is used for plugging in 3V supply
- 13. What is the correct execution process of an Arduino code?
- a) Editor->Preprocessor->Compiler
- b) Preprocessor->Editor->Compiler
- c) Compiler->Preprocessor->Editor
- d) Editor->Compiler->Preprocessor
- 14. What is the microcontroller used in Arduino UNO?
- a) ATmega32114
- b) AT91SAM3x8E
- c) ATmega2560
- d) ATmega328p
- 15. Which board is the first to use a microcontroller within the build USB? a) RedBoard
- b) Leonardo
- c) LilyPad
- d) UNO
- 16. Which Arduino Board contains an onboard joystick?
- a) Arduino Nano
- b) Arduino UNO
- c) Arduino Esplora
- d) Arduino Due

Dr. G. Balakrishnan, M.E., Ph.D., Principal

- 17. What is the function of the IOREF pin on the Arduino UNO?
- a) To take input voltage and set it as a reference for all GPIO operations
- b) To provide a constant 12V DC supply
- c) To provide ground



- d) To provide the voltage corresponding to the standard GPIO working voltage of the board
- 18. Which processor supports the Arduino Zero?
- a) ARM Cortex M0+
- b) ARM Cortex M3
- c) Atmega32u4
- d) Atmega328P
- 19. Which software is used to upload the Arduino Sketches to the board?
- a) avrgcc
- b) g++
- c) cpython for windows
- d) avrdude
- 20. What is the use for the 2 serial pins on the Arduino Diecimila?
- a) To send PWM signals
- b) To send and receive Serial TTL signals
- c) To send and receive GPIO digital signals
- d) To receive analog signals
- 21. Which Arduino Boards use the Atmega2560?
- a) Arduino Micro and Due
- b) Arduino Nano and Fio
- c) Arduino Mega and Mega ADK
- d) Arduino Uno and Robot
- 22. What is the operating voltage of Atmega328?
- a) 1.9V to 5V
- b) 1.8V to 5.5V
- c) 1.1V to 5V
- d) 12V to 9V
- 23. Which Arduino Boards use the Atmega32U4?
- a) Arduino Uno
- b) None Mega
- c) Arduino Micro
- d) Arduino Leonardo

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

- 24. Is the Arduino code an Object-Oriented programming language or a Procedural programming language?
- a) The Arduino Code follows the Top-Down Procedural ideology
- b) The Arduino Code follows a custom Procedural Ideology
- c) The Arduino Code follows the Object-Oriented ideology
- d) The Arduino Code follows the Bottom-Up Procedural ideology
- 25. What is the difference between an IDE and a compiler?
- a) The compiler executes the code while the IDE gives a graphical environment for writing the code
- b) The compiler links the code to the respective files and the IDE takes it from there
- c) The compiler and the IDE are the same thing

The IDE executes the code while the compiler gives a graphical environment forwriting the code



## Value Added Course

### "ARDUINO PROGRAMMING"

#### **ANSWER KEY**

| 1 | С | 6  | В | 11 | A | 16 | C | 21 | C |
|---|---|----|---|----|---|----|---|----|---|
| 2 | В | 7  | D | 12 | В | 17 | D | 22 | В |
| 3 | D | 8  | Α | 13 | Α | 18 | A | 23 | D |
| 4 | С | 9  | С | 14 | D | 19 | D | 24 | С |
| 5 | A | 10 | D | 15 | В | 20 | В | 25 | A |

Dr.

**VAC Coordinator** 

Dr. G. Balakrishnan, M.E., Ph.D.,

Your Journ TV /VII Hame of the situdorit : Dioga . T. AU Degister Number: 31131:110/1000 Walue Added Gastie Dr. G. Balakrishnan, M.E., Ph.D., Principal

Name of the Student:

Year/Sem:

**AU Register Number:** 

### Value Added Course

#### "Master CAM"

#### MCQ QUESTIONS (25X4 = 100 Marks)

Batch model production lines are most suited to which one of the following production situations:
 a. Job shop
 c. Medium production

b. Mass production

d. All of the above

2. Flexible manufacturing systems and cells are generally applied in which one of the following areas:

a High-variety, low-volume production

b. low variety

c. low volume

d. mass production

3. When the flow of materials is variable

a. layout by process is most suitable

b layout by product is most suitable

c. layout by fixed position is most suitable

d. line balancing is most suitable

4. What type of process would a paper mill be most likely to use?

a. Continuous flow

b. Project

c. Job shop

d. Flow shop

5. What are the two basic types of production systems?

a. Automated and manual

b. Intermittent and non intermittent process

c. Normal and continuous process

d. Continuous process and batch

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



| <b>——</b> |   |  |
|-----------|---|--|
|           |   |  |
| 6.        | All of the following are current trends in m                      | <u> </u>   |
|           | a. global competition   | b. worker involvement                            |
|           | c. total quality management                                       | d. linear work flow                              |
| 7.        | Productivity increases when                                       |  |
|           | a. inputs increase while outputs remain the same                  | b. inputs decrease while outputs remain the same |
|           | c. outputs decrease while inputs remain the same                  | d. inputs and outputs increase proportionately   |
| _         |   | proportionately                                  |
| 8.        | Quality in design and production includes:  a. service after sale | b. performance                                   |
|           |   | -  |
|           | c. customer expectations  | d. all of the above                              |
| 9.        | CIM stands for  |  |
|           | a. Computer integrated machine.                                   | b. Central integrated machine                    |
|           | c. Computer integrated manufacturing                              | d. Central integrated manufacturing              |
| 10.       | Which item best describes a CAM technolog                         | yy?  |
|           | a. Numerical control  | b. Documentation                                 |
|           | c. Drafting   | d. Geometric modelling                           |
| 11.       | Automation leads to   |  |
|           | a. Increase in productivity.                                      | b. Shorter lead time                             |
|           | c. Unemployment.  | d. All of the above                              |
| 12.       | Break even analysis consist of                                    |  |
|           | a. Fixed cost   | b. Variable cost                                 |
| 1         | c. Fixed and variable cost  | d. None of the above                             |

13. MLT stands for a. Manufacturing lead time b. Mean lead time

c. Minimum lead time

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering d. None of the above IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

- 14. . NC contouring is an example of
  - a. Continuous path positioning
  - c. Absolute positioning

- b. Point-to-point positioning
- d. Incremental positioning
- 15. The axes of turning machine arc:
  - a. Z and X-axes
  - c. Z and Y-axes

- b. X and Y-axes
- d. X, Y and Z-axes
- 16. The heart of a computer is:
  - a. CPU
  - c. Monitor

- b. ALU
- d. Keyboard

- 17. MCU stands for
  - a. Machine control unit.
  - c. Mechanical control unit

- b. Machine center unit
- d. Mechanical center unit
- 18. The lost motion in CNC machine tool is on account of
  - a. Backlash in gearing

- b. Wind-up of drive shafts
- c. Deflection of machine tool members
- d. All the above
- 19. On turning lathes the machine zero point is generally at the:
  - a. Head stock of lathe spindle nose face
- b. Dead center of tail stock
- c. Tool point mounted on tool post
- d. none of the above
- 20. . CAE and CAM are linked through:
  - a. A common database and communication system
  - c. Assembly automation and tool
- b. NC tape programming and automated design
- production
- d. Parts production and testing
- 21. Process layout is employed for
  - a. Batch production
  - c. Effective utilization of machines

b. Continuous production

Dr. G. Balakrishnan, M.E., Ph.D.,

d. All of the above

Principal



### COLLEGE OF ENGINEERING

Madural Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- 22. for a product layout the material handling equipment
  - a. Have full flexibility

- b. Employ conveyor belts trucks etc.
- c. Be a general purpose type
- d. Be designed as special purpose for a particular application.
- 23. Product layout is employed for
  - a. Batch production

- b. Continuous production
- c. Effective utilization of machines
- d. All of the above

- 24. CAM refers to
  - a. Computer aided machine
- b. Computer aided manufacturing
- c. Central aided manufacturing
- d. Central aided machine
- 25. Part-programming mistakes can be avoided in
  - a. NC (Numerical Control) machine tool
- b. CNC (Computer Numerical Control) machine tool

c. Both a. and b.

d. None of the above

V

A Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



#### Value Added Course

"Master CAM"

#### **ANSWER KEY**

| 1 | С | 6  | b | 11 | d | 16 | a | 21 | a |
|---|---|----|---|----|---|----|---|----|---|
| 2 | a | 7  | b | 12 | С | 17 | a | 22 | d |
| 3 | a | 8  | d | 13 | a | 18 | a | 23 | ь |
| 4 | a | 9  | c | 14 | a | 19 | b | 24 | b |
| 5 | b | 10 | a | 15 | a | 20 | a | 25 | b |

Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., . Principal

Name of the Student: C. Dhonaridhman

**AU Register Number:** 

81121714009

Value Added Course

"Master CAM"

#### MCQ QUESTIONS (25X4 = 100 Marks)

1. Batch model production lines are most suited to which one of the following production situations:

a. Job shop

c Medium production

b. Mass production

d. All of the above

Flexible manufacturing systems and cells are generally applied in which one of the following areas:

a High-variety, low-volume production

b. low variety

c. low volume

d. mass production

When the flow of materials is variable

a. layout by process is most suitable

b layout by product is most suitable

Year/Sem: W-mech

c. layout by fixed position is most suitable

d. line balancing is most suitable

4. What type of process would a paper mill be most likely to use?

a. Continuous flow

b. Project

c. Job shop

d. Flow shop

5. What are the two basic types of production systems?

a Automated and manual

b. Intermittent and non intermittent process

c. Normal and continuous process

d. Continuous process and batch

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



| 6.  | All of the following are current trends in ma. global competition            | anufacturing, except:  b worker involvement      |
|-----|--|--|
|     | c. total quality management  | d. linear work flow                              |
| 7.  | Productivity increases when a. inputs increase while outputs remain the same | b. inputs decrease while outputs remain the same |
|     | c. outputs decrease while inputs remain the same                             | d. inputs and outputs increase proportionately   |
| 8.  | Quality in design and production includes: a. service after sale             | b. performance                                   |
|     | c. customer expectations   | d all of the above                               |
| 9.  | CIM stands for a. Computer integrated machine.                               | b. Central integrated machine                    |
| (   | c. Computer integrated manufacturing   | d. Central integrated manufacturing              |
| 10. | Which item best describes a CAM technolog                                    | ry?  |
|     | a. Numerical control   | b. Documentation                                 |
|     | c. Drafting  | d. Geometric modelling                           |
| 11. | Automation leads to  |  |
|     | a. Increase in productivity.   | b. Shorter lead time                             |
|     | c. Unemployment.   | d. All of the above                              |
|     | Break even analysis consist of   | h Variable cost                                  |

a. Fixed cost

c. Fixed and variable cost

13. MLT stands for

a. Manufacturing lead time

c. Minimum lead time

b. Variable cost

d. None of the above

Dr. G. Baiakrishnan, M.E., Ph.D., b. Mean lead time Principa!

Indra Ganesan College of Engineering d. None of the above IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

- 14. . NC contouring is an example of
  - a. Continuous path positioning
  - c. Absolute positioning
- 15. The axes of turning machine arc:
  - a. Z and X-axes
  - c. Z and Y-axes
- 16. The heart of a computer is:
  - a. CPU
  - c. Monitor
- 17. MCU stands for
  - a. Machine control unit.
  - c. Mechanical control unit

- b. Point-to-point positioning
- d. Incremental positioning

b. X and Y-axes

d. X, Y and Z-axes

- b. ALU
- d. Keyboard
- b) Machine center unit
- d. Mechanical center unit
- 18. The lost motion in CNC machine tool is on account of
  - a. Backlash in gearing

b. Wind-up of drive shafts

- c. Deflection of machine tool members
- d. All the above
- 19. On turning lathes the machine zero point is generally at the:
  - a. Head stock of lathe spindle nose face
- b. Dead center of tail stock
- c. Tool point mounted on tool post
- d. none of the above
- 20. . CAE and CAM are linked through:
  - a. A common database and communication system
  - c. Assembly automation and tool production
- 21. Process layout is employed for
  - a Batch production
  - c. Effective utilization of machines

- b. NC tape programming and automated design
- d. Parts production and testing
- b. Continuous production
- d. All of the above Dr. G. Balakrishnan, M.E., Ph.D.,

- 22. for a product layout the material handling equipment
  - a. Have full flexibility

- b. Employ conveyor belts trucks etc.
- c. Be a general purpose type
- Be designed as special purpose for a particular application.
- 23. Product layout is employed for
  - a. Batch production
  - c. Effective utilization of machines
- **B.** Continuous production
- d. All of the above

- 24. CAM refers to
  - a. Computer aided machine
  - c. Central aided manufacturing
- B. Computer aided manufacturing
- d. Central aided machine
- 25. Part-programming mistakes can be avoided in
  - a. NC (Numerical Control) machine tool
- b. CNC (Computer Numerical Control)
  machine tool

c. Both a. and b.

d. None of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

VAC Coordinator

Name of the Student:

Year/Sem:

**AU Register Number:** 

### Value Added Course

"F&B Development in Full Stack"

#### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1. What does the term "Full Stack Development" refer to?
  - A. Development that involves stack data structures
  - B. Development that involves front-end and back-end programming
  - C. Development that involves only backend programming
  - D. None of the above
- 2. Which of the following is not a front-end technology?
  - A. HTML
  - B. CSS
  - C. JavaScript
  - D. SQL
- 3. The purpose of the Front-end framework in Full stack development is \_\_\_\_\_
  - A. To provide the client-side interface
  - B. To manage database
  - C. To reduce the server load
  - D. To send http requests
- 4. Amongst which of the following programming language is used as a server-side language?
  - A. Python
  - B. C++
  - C. JavaScript
  - D. Both A and C
- 5. What is a Front-end framework?
  - A. A development platform for developing user-interface for software applications
  - B. A database to store and manage the data of an application
  - C. A development platform for writing server-side logic
  - D. None of the above
- 6. Database in Full stack development is used to \_\_\_\_\_.
  - A. Styling HTML pages
  - B. Storing and retrieving data
  - C. Handling errors on server-side
  - D. Rendering web pages

#### 7. What is Git?

- A. Framework
- B. Version control system
- C. Database
- D. Package manager

#### 8. CRUD stands for \_\_\_\_\_.

- A. Create, Read, Upload, Delete
- B. Create, Read, Upgrade, Deploy
- C. Create, Remove, Upgrade, Delete
- D. Create, Read, Update, Delete

#### 9. The term "deployment" refers to

- A. Running the project on a server to make it accessible to all
- B. Bundling all the project files into a single file
- C. Removing unnecessary files
- D. Updating existing project

## 10. A web server in Full Stack Development is \_\_\_\_\_.

- A. Rendering the user interface
- B. Handling client-side interactions
- C. Executing server-side code and processing requests
- D. Writing server-side logics

## 11. Is JavaScript synchronous or asynchronous?

- A. Synchronous
- B. Asynchronous
- C. Both
- D. Synchronous but can be used as asynchronous

#### 12. SPA stands for \_\_\_\_.

- A. Standard Page Application
- B. Single Page Application
- C. Smart Protocol Authentication
- D. Scalable Performance Architecture

## 13. Amongst which of the following is a back-end framework in Python?

- A. Django
- B. Flask
- C. Both A and B
- D. None of the above
- 14. Amongst which of the following type of database is used in Full stack development?
  - A. Relational

D:

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- D. GraphQL
- 15. Amongst which of the following protocol is used to exchange the data between client and server?
  - A. HTTP
  - B. TCP/IP
  - C. SMTP
  - D. FTP
- 16. What is the purpose of CSS in Full stack development?
  - A. To style and format HTML elements
  - B. To manage http request and response
  - C. To store and retrieve data
  - D. None of the above
- 17. Which of the following statement is TRUE about AJAX?
  - A. AJAX enables asynchronous data retrieval without reloading the entire page
  - B. AJAX improves the design layout
  - C. AJAX helps in creating dynamic websites
  - D. AJAX is a popular query language for Full stack development
- 18. The role of view in model-view-controller architecture is \_\_\_\_\_.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

A. Displaying data to the user

- B. Optimize database queries
- C. Handle client's request
- D. Manage server-side routing

- 19. Amongst which of the following is TRUE about model-view-architecture?
  - A. The View accesses the data from the Model using AJAX calls
  - B. Model and View are independent and do not communicate directly
  - C. Model and View communicate via Controller
  - D. Model and View communicate directly
- 20. Amongst which of the following is not a NoSQL database used in Full Stack Development?
  - A. MongoDB
  - B. PostgreSQL
  - C. CouchDB
  - D. Hadoop
- 21. In HTML, the <i frame> tag is used to \_\_\_\_\_.
  - A. Embed another HTML document or a web page within the current document
  - B. Insert a video in the HTML document
  - C. Create a frame in an HTML document
  - D. None of the above
- 22. Which HTML tag is used to create vector graphics and illustrations?
  - A. <canvas>
  - B. <svg>
  - C widow



- D. <details>
- 23. Which of the following statement is FALSE about class attributes in HTML elements?
  - A. The class attribute is used to assign one or more class names to an HTML element
  - B. Class attribute allows applying CSS and JavaScript to HTML elements based on the class name
  - C. The class attribute is used to assign an ID to the HTML element
  - D. The class attribute is one of the most used attributes in HTML elements
- 24. In an HTML document, which tag is used to add JavaScript code?
  - A. <javascript>
  - B. <js>
  - C. <script>
  - D. <java>
- 25. Which of the following is an array method in JavaScript?
  - A. map
  - B. every
  - C. reduce
  - D. all of the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

### Value Added Course

"F&B Development in Full Stack"

#### **ANSWER KEY**

| 1 | В   | 6  | В | 11 | D   | 16 | Α | 21 | A  |
|---|-----|----|---|----|-----|----|---|----|----|
| 2 | D   | 7  | В | 12 | В   | 17 | A | 22 | В  |
| 3 | A   | 8  | D | 13 | A&B | 18 | Α | 23 | С  |
| 4 | A&C | 9  | A | 14 | A   | 19 | В | 24 | ·C |
| 5 | A   | 10 | С | 15 | A   | 20 | D | 25 | D  |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. VACCoordinator



Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Year/Sem:

**AU Register Number:** 

Name of the Student:

#### Value Added Course

"Climate change"

#### **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)**

- 1. What is the most important issue of our day?
- a) Food production
- b) Climate change
- c) Industrialization
- d) Greenhouse gases
- 2. Why are greenhouse gases essential to the survival of humans and other living things?
- a) They make the Earth habitable
- b) They cause global warming
- c) They reduce air pollution
- d) They are toxic to most living things
- 3. What is the main source of greenhouse gases?
- a) Deforestation
- b) Agriculture
- c) Fossil fuels
- d) Oceans
- 4. What is the IPCC?
- a) A government agency that promotes fossil fuel use
- b) An organization that promotes climate change denial
- c) A scientific panel that provides unbiased climate change information
- d) A lobbying group for renewable energy companies
- 5. What is the Fifth Assessment Report?
- a) A report on the causes of sea level rise
- b) A report on the benefits of renewable energy
- c) A report on the effects of climate change on wildlife
- d) A report on the dangers of climate change denial
- 6. How much has the global sea level rise between 1901 and 2010?
- a) 1 cm
- b) 10 cm
- c) 19 cm
- d) 100 cm

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
• IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

45.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelbi & Affiliated to Anna University, Chemial NAAC Accredited, 2(F) Status Institution by UGC

# 7. What is the probability that the average global temperature will continue to increase above pre-industrial levels by the end of this century?

- a) Low
- b) Medium
- c) High
- d) Unknown

#### 8. What is the IPCC special report on the impacts of global warming of 1.5°C?

- a) A report on the benefits of fossil fuel use
- b) A report on the positive effects of climate change
- c) A report on the negative effects of climate change
- d) A report on the benefits of limiting global warming to 1.5°C

## 9. According to the IPCC special report, what is necessary to limit global warming to 1.5°C?

- a) Swift and extensive reforms
- b) No action is necessary
- c) A gradual transition to renewable energy
- d) Increased use of fossil fuels

#### 10. What are the advantages of limiting global warming to 1.5°C?

- a) A more sustainable and equitable society
- b) More extreme weather events
- c) A decrease in sea levels
- d) A decrease in food production

## 11. What are the effects of climate change that may be avoided if global warming is limited to 1.5°C instead of 2°C or greater?

- a) Higher sea level rise
- b) Increased frequency of extreme weather events
- c) More severe droughts
- d) All of the above

#### 12. How long would it take to stabilize global temperatures if immediate action is taken?

- a) 10 years
- b) 20-30 years
- c) 50 years
- d) 100 years

#### 13. What is the main cause of sea level rise?

- a) Glacier melts
- b) Ocean expansion
- c) Both glacier melt and ocean expansion
- d) Deforestation

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 





Madurai Main Road (NH-45B), Manikandarn, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

#### 14. Which one of the following cause global warming?

- a) Carbon dioxide
- b) Oxygen
- c) Nitrogen
- d) Hydrogen

#### 15. How many percent of carbon dioxide increased in the atmosphere since preindustrial times?

- a) About 10%
- b) About 20%
- c) About 30%
- d) About 40%

#### 16. What is the full form of UNFCC with respect to global warming convention?

- a) United Nations Framework Convention on Climate Change
- b) United Nations Federation Convention on Climate Change
- c) United Nations Framework Centre on Climate Change
- d) United Nations Federation Centre on Climate Change

#### 17. Who measures the global warming rate?

- a) Astrologers
- b) Physicist
- c) Philosopher
- d) Climatologist

#### 18. Which one of the following result takes place due to global warming?

- a) Maintaining steady temperature
- b) Changes in the rainfall
- c) Pleasant environment
- d) Causing less pollution

#### 19. Which one of the following cause global warming?

- a) Radiative forcing
- b) Earth gravitation force
- c) Oxygen
- d) Centripetal force

#### 20. How human activity has influenced global warming?

- a) By planting more trees
- b) By causing changing in gravitational force
- c) By changing the radiative balance governing the Earth
- d) By protecting environment

#### 21. Which one of the following is the anthropogenic radiative forcing of climate?

- a) Aerosols
- b) Cement
- c) Paper
- d) Glass

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



#### OLLEGE OF ENGINEERING





#### 22. Which one of the following land use causes global warming?

- a) Increase in the fertility of soil
- b) Surface reflectance
- c) Forestation
- d) Adopting organic farming

#### 23. Changes in the composition of the atmosphere is an example

of

- a) Internal forcing
- b) External forcing
- c) Mid forcing
- d) Gravitational forcing

#### 24. What is the main reason for melting of ice sheets?

- a) Increase in the oxygen content
- b) Global warming
- c) Decrease in carbon dioxide content
- d) Noise pollution

#### 25. Which one of the following is the effect of global warming?

- a) Maintaining sea level
- b) Proper rainfall
- c) Desertification
- d) Afforestation

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemnai NAAC Accredited, 2(F) Status Institution by UGC

### Value Added Course

"Climate change"

#### **ANSWER KEY**

| 1 | b | 6  | С | 11 | D | 16 | a | 21 | a |
|---|---|----|---|----|---|----|---|----|---|
| 2 | a | 7  | С | 12 | В | 17 | d | 22 | ь |
| 3 | С | 8  | d | 13 | С | 18 | b | 23 | b |
| 4 | С | 9  | a | 14 | A | 19 | a | 24 | b |
| 5 | a | 10 | a | 15 | С | 20 | С | 25 | С |

Manchanas elu 'VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student: Sharmi. A

Year/Sem: I /I

AU Register Number: 811 220205039

#### Value Added Course

"Climate change"

#### **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)**

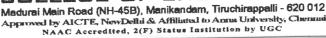
- 1. What is the most important issue of our day?
- a) Food production
- (b) Climate change
- c) Industrialization
- d) Greenhouse gases
- 2. Why are greenhouse gases essential to the survival of humans and other living things?
- a) They make the Earth habitable
- b) They cause global warming
- c) They reduce air pollution
- (d) They are toxic to most living things
- 3. What is the main source of greenhouse gases?
- a) Deforestation
- b) Agriculture
- (c) Fossil fuels
- d) Oceans
- 4. What is the IPCC?
- a) A government agency that promotes fossil fuel use
- b) An organization that promotes climate change denial
- c) A scientific panel that provides unbiased climate change information
- d) A lobbying group for renewable energy companies
- 5. What is the Fifth Assessment Report?
- a) A report on the causes of sea level rise
- b) A report on the benefits of renewable energy
- (c) A report on the effects of climate change on wildlife
- d) A report on the dangers of climate change denial
- 6. How much has the global sea level rise between 1901 and 2010?
- a) 1 cm
- b) 10 cm
- (c))19 cm
- d) 100 cm

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



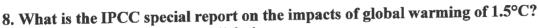






7. What is the probability that the average global temperature will continue to increase above pre-industrial levels by the end of this century?

- a) Low
- b) Medium
- c) High
- d) Unknown



- a) A report on the benefits of fossil fuel use
- b) A report on the positive effects of climate change
- c) A report on the negative effects of climate change
- d) A report on the benefits of limiting global warming to 1.5°C

9. According to the IPCC special report, what is necessary to limit global warming to 1.5°C?

- a) Swift and extensive reforms
- (b) No action is necessary
- c) A gradual transition to renewable energy
- d) Increased use of fossil fuels

10. What are the advantages of limiting global warming to 1.5°C?

- (a) A more sustainable and equitable society
- b) More extreme weather events
- c) A decrease in sea levels
- d) A decrease in food production

11. What are the effects of climate change that may be avoided if global warming is limited to 1.5°C instead of 2°C or greater?

- a) Higher sea level rise
- b) Increased frequency of extreme weather events
- c) More severe droughts
- d) All of the above

12. How long would it take to stabilize global temperatures if immediate action is taken?

- a) 10 years
- (b))20-30 years
- c) 50 years
- d) 100 years

13. What is the main cause of sea level rise?

- a) Glacier melts
- b) Ocean expansion
- (c) Both glacier melt and ocean expansion
- d) Deforestation

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Read

Manikandam, Trichy-620 012.



# EGE OF ENGINEERING





Approved by AICTE, NewDellni & Affiliated to Arma University, Ch NAAC Accredited, 2(F) Status Institution by UGC

| 14. | Which | one | of the | following | cause | global | warming? |
|-----|-------|-----|--------|-----------|-------|--------|----------|
|-----|-------|-----|--------|-----------|-------|--------|----------|

- a) Carbon dioxide
- **b**Oxygen
- c) Nitrogen
- d) Hydrogen

#### 15. How many percent of carbon dioxide increased in the atmosphere since preindustrial times?

- (a) About 10%
- b) About 20%
- c) About 30%
- d) About 40%

#### 16. What is the full form of UNFCC with respect to global warming convention?

- a) United Nations Framework Convention on Climate Change
- b) United Nations Federation Convention on Climate Change
- c) United Nations Framework Centre on Climate Change
- d) United Nations Federation Centre on Climate Change

#### 17. Who measures the global warming rate?

- (a) Astrologers
- b) Physicist
- c) Philosopher
- d) Climatologist

#### 18. Which one of the following result takes place due to global warming?

- a) Maintaining steady temperature
- b) Changes in the rainfall
- c) Pleasant environment
- d) Causing less pollution

#### 19. Which one of the following cause global warming?

- a) Radiative forcing
- b) Earth gravitation force
- c) Oxygen
- d) Centripetal force

#### 20. How human activity has influenced global warming?

- a) By planting more trees
- b) By causing changing in gravitational force
- c) By changing the radiative balance governing the Earth
- d) By protecting environment

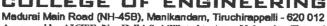
### 21. Which one of the following is the anthropogenic radiative forcing of climate?

- a) Aerosols
- (b) Cement
- c) Paper
- d) Glass

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 







Approved by AICTE, NewDelhi & Affiliated to Arma University, Chermal NAAC Accredited, 2(F) Status Institution by UGC

#### 22. Which one of the following land use causes global warming?

- a) Increase in the fertility of soil
- (b) Surface reflectance
- c) Forestation
- d) Adopting organic farming

| 23. | Changes in | the composition | of the | atmosphere | is an | example |
|-----|------------|-----------------|--------|------------|-------|---------|
|-----|------------|-----------------|--------|------------|-------|---------|

of

- a) Internal forcing
- (b) External forcing
- c) Mid forcing
- d) Gravitational forcing

#### 24. What is the main reason for melting of ice sheets?

- a) Increase in the oxygen content
- (b) Global warming
- c) Decrease in carbon dioxide content
- d) Noise pollution

#### 25. Which one of the following is the effect of global warming?

- a) Maintaining sea level
- b) Proper rainfall
- c) Desertification
- d) Afforestation

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Advanced Accounting Package with GST"

#### MCO QUESTIONS (25X4 = 100 Marks)

#### I GST is billed as soon as the stock is ......

- A. Federal
- B. Intra- UT
- C. Intra-state
- D. All of the above

#### 2. The highest CGST rate legally permitted for intrastate supplies is.....

- A. 18%
- B. 40%
- C. 20%
- D. 28%+cess

#### 3. Which one of the below taxes is included in the GST?

- A. Central sales tax
- B. Central excise duty
- C. VAT
- D. All of the above

#### 4. GST is imposed on the production of all services and goods, except.....

- A. Liquor intended for human ingestion
- B. Tobacco
- C. Health care service
- D. All of the above.

#### 5. The products & services networking (GSTN) performs the following activities...

- Facilitating registration
- B. Returning the package to the federal and state governments.
- C. GST calculation and settlementAll
- D. of the above

#### 6. The term total revenue would not include the following items:

- A. Inward deliveries that are taxed on an effective payment basis
- B. Exempt supplies
- C. Export of goods or services or both
- D. Persons with the very same PAN address supplying across state lines

#### 7. Which of the below are GST's advantages?

- Establishment of a single national market
- 2. Strengthening the 'Make in India' program
- Lessening the burden of conformity on taxpayers
- 4. Increase in government revenue
- 5. Dual taxation, as well as double taxation, are eliminated. Select the appropriate answer from the choices below.
  - A. 1, 3, 4, and 5 are the first, third, fourth, and fifth numbers.
  - B. 2, 3, 4 & 5
  - C. 1, 2, 4 and 5
  - D. 1, 2, 3, 4 and 5

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

## 8. What below would be included in the description of "Goods" under article 2(52) of the CGST Act, 2017?

- 1) Money
- II) Actionable claim
- III) Security
- IV) Growing crops

| Choose | the | correct | choice | from | the | list | below. |
|--------|-----|---------|--------|------|-----|------|--------|
|--------|-----|---------|--------|------|-----|------|--------|

- A. IV only
- B. | | | & | | |
- C. II & IV
- D. 1&11

## 9) A supplier that consists of two or even more services would be classified as the provision that describes the variables that are subject to a higher rate of taxation.

- A. Composite
- B. Mixed
- C. Both (a) and (b)
- D. None of the above

## 10. GST stands for Goods and Services Tax, and it is a tax system that covers a wide range of

- A. Goods
- B. Services
- C. Goods, companies and imports
- D. Products, systems, and exports

#### 11. What duties are taxes on intra-State supplies?

- A. CGST
- B. SGST
- C. CGST and SGST
- D. IGST

12.

# IGST IG Valley, Madurai Main Road Manikandam Trichy-620 012. Who will announce the rate of taxation to be imposed underneath the CGST Act?

nan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

- A. The Federal Government
- B. State Administration
- C. GST Commission
- D. Central And state, following the GST Council's proposals

#### 13. Which of the below import duties would be imposed?

- A. CGST
- B. SGST
- C. IGST
- D. CGST and SGST

#### 14. Which one of the following does not contribute to overall revenue?

- A. Goods or trade supplies that are exempt, or both
- B. Export of commodities, services, or a combination of the two
- C. Supply of commodities or services between states, or both
- D. The value of inbound services on which reverse fee tax is charged

#### 15 . The IGST Act of 2017 covers the whole country.

- A. India as a whole, except Jammu and Kashmir.
- B. India as a whole
- C. India as a whole, except Jammu and Kashmir and Pondicherry.
- D. None of the preceding

#### 16 . In the event of an advance charge, how long does it take for products to be delivered?

- A. The invoice's period of issuance
- B. The invoice must be issued by the due date.
- C. Date on which the provider receives payment
- D. The earlier of (a) and (b)

## 17. When a provider opts for the component levy within Article 10 of its CGST Act, 2017, when is the date of delivery of goods?

- The invoice's date of issuance
- B. Date on which the provider receives payment
- C. Synthesis of (a) and (b)
- D. The earlier of (a) and (b)



## 18. What is the timing of voucher provision when the supply may be traced back to the voucher?

- A. The date on which the voucher could be issued
- B. The date on which the coupon must be redeemed
- C. Earlier of (a) and (b)
- D. whichever of (a) and (b) comes first

# 19. When the administration of certificates concerning the coupon is not recognizable, what is the supply period?

- A. The date on which the voucher was issued
- B. The date on which the coupon must be redeemed
- C. Earlier of (a) and (b)
- D. whichever of (a) and (b) comes first

# 20 . What is the period of service delivery if the payment is received within days of the date of the health system?

- A. The invoice's date of issuance
- B. The time on which the provider is paid
- C. The date on which the service was rendered
- D. The earlier of (a) and (b)

# 21 . When resources are acquired from an affiliated firm situated beyond India, what would be the timing of service delivery?

- A. The date on which the services were entered into the recipient's accounting record.
- B. Payment due date
- C. The earlier of (a) and (b)
- D. The date on which the services were entered into the customer's records.

#### 22. The term time of provision refers

- A. The point at which the GST gets compensated by the products or service provider.
- B. The moment at which GST would be paid after the seller of services and goods has taken input credit.
- C. The moment at which products are judged to have been produced or services are assessed to have been rendered
- D. The date on which a provider of services and goods files a GST return.
- 23 When a provider is obligated to pay tax under the advance charge and the bill does not become given within the specified timeframe under section 31(2), when is the delivery time of services?
- A. The invoice's date of issuance
- B. The date on which the services will be completed
- C. Date of the deposit slip
- D. The day the service is completed or when profit is earned, whichever comes first.

#### 24 . What is the estimated delivery time for service imports?

- A. The date on which the services were entered into the recipient's books of account.
- B. Payment due date.
- C. 61st day after the invoice date.
- D. Both (a) or (b)
- E. (b) or (c), whichever date is earlier.

#### 25 . Which one of the below will not be added to supply value?

- A. GST
- B. Interest
- C. Late fee
- D. Commission

(D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

|                                  | Approved by AICTE, NewDelli) & Artillated to Alina  | ojiitoratą, ozna  |
|----------------------------------|---|---|
| Nam<br>AU R                      | e of the Student: A nitha. V legister Number: 811219631003 Value Added Course on "Advanced Accounting Package   | : D - MBA ge with GST"  |
|                                  | MCQ QUESTIONS (25X4 = 100 Marks)  |   |
| 1.00                             | T is billed as soon as the stock is   | •   |
| AB C.                            | Federal Intra- UT Intra-state All of the above e highest CGST rate legally permitted for intrastate supplies is 18% 40%   | s<br>Dr. G. Balakrishnan, M.E., Ph.D.,  |
|                                  | 20%   | Principal   |
| D.<br>3. WI<br>A.<br>B.<br>C.    | 28%+cess nich one of the below taxes is included in the GST? Central sales tax Central excise duty VAT  | Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| B.                               | All of the above  ST is imposed on the production of all services and goods, ex  Liquor intended for human ingestion  Tobacco   | cept  |
| C.<br>D.<br>Th<br>A.<br>B.<br>C. | Health care service All of the above.  e products & services networking (GSTN) performs the follow Facilitating registration Returning the package to the federal and state governments. GST calculation and settlementAll of the above | ring activities   |
| 9                                | The term total revenue would not include the following items  | R<br>a  |
| A.BOD.                           | Inward deliveries that are taxed on an effective payment basis<br>Exempt supplies<br>Export of goods or services or both<br>Persons with the very same PAN address supplying across sta   |   |
|                                  | Which of the below are GST's advantages?  |   |
|                                  | Establishment of a single national market   |   |
|                                  | Strengthening the 'Make in India' program Lessening the burden of conformity on taxpayers Increase in government revenue Dual taxation, as well as double taxation, are eliminated. appropriate answer from the choices below.          |   |

- A. 1, 3, 4, and 5 are the first, third, fourth, and fifth numbers. B. 2, 3, 4 & 5
- B. 2, 3, 4 & 5 1, 2, 4 and 5 D. 1, 2, 3, 4 and 5
- 8. What below would be included in the description of "Goods" under article 2(52) of the CGST Act, 2017?
  - 1) Money
  - II) Actionable claim
  - III) Security
  - IV) Growing crops



| Choos   | se the correct choice from the list below.  |                                      |
|---|---|--------------------------------------|
| (A.)  | IV only   |                                      |
| (A.)<br>B.  | 11 & 111  |                                      |
| C.  | II & IV   |                                      |
| D.  | 181   |                                      |
| 9) A supplier that consists of two or even more services would be classified as the       |   |                                      |
| provision that describes the variables that are subject to a higher rate of taxation.     |   |                                      |
|   | Composite   |                                      |
| <b>B</b>  | Mixed   |                                      |
| <b>8</b>  | Both (a) and (b)  |                                      |
| D.  | None of the above   |                                      |
| 10.   | GST stands for Goods and Services Tax, and it is a tax system tha   | t covers a wide                      |
| range of  |   |                                      |
| A.  | Goods   |                                      |
| B. /  | Services  |                                      |
|   | Goods, companies and imports  |                                      |
| 9   | Products, systems, and exports  |                                      |
|   | nat duties are taxes on intra-State supplies?   |                                      |
| A.  | CGST  |                                      |
|   | SGST  |                                      |
| Ö   | CGST and SGST   |                                      |
| Đ.  | IGST  |                                      |
| 12.   | Who will announce the rate of taxation to be imposed underneath t   | the CGST Act?                        |
|   | The Federal Government  |                                      |
| A.<br><b>B</b>  | State Administration  |                                      |
| C.  | GST Commission  |                                      |
| D.  | Central And state, following the GST Council's proposals  | ×                                    |
|   | nich of the below import duties would be imposed?   |                                      |
| Α.  | CGST  |                                      |
| B.  | SGST  |                                      |
| 6   | IGST  |                                      |
| B<br>D.   | CGST and SGST   |                                      |
| 14.   | Which one of the following does not contribute to overall revenue?  |                                      |
| A.  | Goods or trade supplies that are exempt, or both  | J.                                   |
| В.  | Export of commodities, services, or a combination of the two  | Dr. G. Balakrishnan, M.E., Ph.D.,    |
| C   | Supply of commodities or services between states, or both   | Principal                            |
| 8   | The value of inbound services on which reverse fee tax is charged   | Indra Ganesan College of Engineering |
| 15 Th   | The value of inbound services on which reverse fee tax is charged ne IGST Act of 2017 covers the whole country. |                                      |
|   | India as a whole, except Jammu and Kashmir.   | IG Valley, Madurai Main Road         |
| A.  | India as a whole  | Manikandam, Trichy-620 012.          |
| <b>(E)</b>  | India as a whole, except Jammu and Kashmir and Pondicherry.   |                                      |
| D.  | None of the preceding   |                                      |
|   | the event of an advance charge, how long does it take for products  | to be delivered?                     |
| -A.   | The invoice's period of issuance  |                                      |
| ` R   | The invoice must be issued by the due date.   |                                      |
| B.<br>OD.   | Date on which the provider receives payment   |                                      |
|   | The earlier of (a) and (b)  |                                      |
| 17 . When a provider opts for the component levy within Article 10 of its CGST Act, 2017, |   |                                      |
| when is the date of delivery of goods?  |   |                                      |
| A.  | The invoice's date of issuance  |                                      |
| В.  | Date on which the provider receives payment   |                                      |
| C. /  | Synthesis of (a) and (b)  |                                      |
| D   | The earlier of (a) and (b)  |                                      |



18. What is the timing of voucher provision when the supply may be traced back to the voucher?

A) B. The date on which the voucher could be issued

The date on which the coupon must be redeemed

C. Earlier of (a) and (b)

D. whichever of (a) and (b) comes first

19. When the administration of certificates concerning the coupon is not recognizable, what is the supply period?

The date on which the voucher was issued

The date on which the coupon must be redeemed

8 Earlier of (a) and (b)

D.

whichever of (a) and (b) comes first

20. What is the period of service delivery if the payment is received within days of the date of the health system?

The invoice's date of issuance A.

B. The time on which the provider is paid

The date on which the service was rendered C.

D. The earlier of (a) and (b)

21. When resources are acquired from an affiliated firm situated beyond India, what would be the timing of service delivery?

The date on which the services were entered into the recipient's accounting record. A.

B. Payment due date

0 The earlier of (a) and (b)

D. The date on which the services were entered into the customer's records.

22. The term time of provision refers

A.B. The point at which the GST gets compensated by the products or service provider.

The moment at which GST would be paid after the seller of services and goods has taken input credit.

The moment at which products are judged to have been produced or services are assessed to have been rendered

The date on which a provider of services and goods files a GST return. D

23 When a provider is obligated to pay tax under the advance charge and the bill does not become given within the specified timeframe under section 31(2), when is the delivery time of services?

The invoice's date of issuance A.

The date on which the services will be completed B.

C Date of the deposit slip

(0.) The day the service is completed or when profit is earned, whichever comes first.

24. What is the estimated delivery time for service imports?

The date on which the services were entered into the recipient's books of account. A.

B. Payment due date.

C. 61st day after the invoice date.

D Both (a) or (b)

(b) or (c), whichever date is earlier.

Which one of the below will not be added to supply value?

**GST** 

B. Interest

C. Late fee

Commission

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Name of the Student: Sangeetha. 'ear/Sem: 🅦 \_ MBA AU Register Number: 8112 796 Value Added Course on "Advanced Accounting Package with GST" MCQ QUESTIONS (25X4 = 100 Marks) I GST is billed as soon as the stock is ...... Federal Intra- UT C. Intra-state D. All of the above 2. The highest CGST rate legally permitted for intrastate supplies is..... 18% 6 40% 20% D. 28%+cess 3. Which one of the below taxes is included in the GST? Dr. G. Balakrishnan, M.E., Ph.D. A. Central sales tax Principal В. Central excise duty Indra Ganesan College of Engineering VAT IG Valley, Madurai Main Road All of the above GST is imposed on the production of all services and goods, except.... Manikandam, Trichy-620 012. Liquor intended for human ingestion Tobacco Health care service All of the above. The products & services networking (GSTN) performs the following activities... Facilitating registration B. Returning the package to the federal and state governments. C GST calculation and settlementAll of the above The term total revenue would not include the following items: 6. A. B. Inward deliveries that are taxed on an effective payment basis **Exempt supplies** C. Export of goods or services or both D. Persons with the very same PAN address supplying across state lines 7. Which of the below are GST's advantages? Establishment of a single national market 2. Strengthening the 'Make in India' program Lessening the burden of conformity on taxpayers 3. 4. Increase in government revenue 5. Dual taxation, as well as double taxation, are eliminated. Select the appropriate answer from the choices below. 8 1, 3, 4, and 5 are the first, third, fourth, and fifth numbers. 2, 3, 4 & 5 C. 1, 2, 4 and 5

- D. 1, 2, 3, 4 and 5
  8. What below would be included in the description of "Goods" under article 2(52) of the CGST Act, 2017?
  - I) Money
  - II) Actionable claim
  - III) Security
  - IV) Growing crops

| Cho            | ose the correct choice from the list below.                                      |                                      |
|----------------|--|--------------------------------------|
| A.             | IV only  |                                      |
| B.             | / II & III   |                                      |
| 0              | 11 & IV  |                                      |
| Ď.             | 1 & 11   |                                      |
| 9) A           | supplier that consists of two or even more services would be clas                | 100                                  |
| prov           | ision that describes the variables that are subject to                           | sified as the                        |
| Α/             | vision that describes the variables that are subject to a higher rate  Composite | of taxation.                         |
| A.<br>O.       | Mixed  |                                      |
| C              | Both (a) and (b)   |                                      |
| D.             | None of the above  |                                      |
| 10.            | GST stands for Condo and O   |                                      |
| rang           | GST stands for Goods and Services Tax, and it is a tax system                    | that covers a wide                   |
| A.             | Goods  |                                      |
| B. ,           | · · · · · · · · · · · · · · · · · · ·  |                                      |
|                | Services   |                                      |
| D.             | Goods, companies and imports   |                                      |
|                | Products, systems, and exports   |                                      |
| 2 11 V         | Vhat duties are taxes on intra-State supplies?                                   |                                      |
| (A.)           | CGST   |                                      |
| B.             | SGST   |                                      |
| C.             | CGST and SGST  |                                      |
| D.             | IGST   |                                      |
| 12.            | Who will announce the rate of taxation to be imposed underneas                   | (b. 4) - 000T +                      |
| A.             | The Federal Government   | in the CGST Act?                     |
| B. /           | State Administration   |                                      |
| Q/             | GST Commission   |                                      |
| 8              | Central And state, following the GST Council's proposals                         |                                      |
|                | hich of the below import duties would be imposed?                                | 3                                    |
| Α.             | CGST CGST  |                                      |
| B /            | SGST   |                                      |
| A.<br>B.<br>D. | IGST   |                                      |
| Ď              | CGST and SGST  |                                      |
| 14.            |  |                                      |
| A.             | Which one of the following does not contribute to overall revenu                 | ie?                                  |
| B.             | 2000s of flade Supplies that are exempt or hoth                                  |                                      |
| C. /           | Export of commodities, services, or a combination of the two                     | Dr. G. Balakrishnan, M.E., Ph.D.     |
|                | Supply of commodities or services between states, or both                        | Principal                            |
| <b>Ø</b> _     | The value of inbound services on which reverse for the in about                  | Indra Ganesan College of Engineering |
| 15.1           | ne 1931 Act of 2017 covers the whole country.                                    | IG Valley, Madurai Main Road         |
| A BOOD         | india as a whole, except Jammu and Kashmir                                       | Manikandam, Trichy-620 012.          |
| В.             | India as a whole   | Manikandam, Trichy-620 012.          |
| $\mathcal{Q}$  | India as a whole, except Jammu and Kashmir and Pondicherry.                      |                                      |
| D.             | Note of the preceding  |                                      |
| 16 . In        | the event of an advance charge, how long does it take for product                | to to be deliced to                  |
|                | The invoice's period of issuance   | is to be delivered?                  |
| B.             | The invoice must be issued by the due date.                                      |                                      |
| C.             | Date on which the provider receives payment                                      |                                      |
| 0              | The earlier of (a) and (b)   |                                      |
| 17 . W         | hen a provider opts for the component levy within Article 10 of its              |                                      |
| when           | is the date of delivery of goods?  | CGST Act, 2017,                      |
| A.             | The invoice's date of issuance   |                                      |
| B.             | Date on which the provider reading   |                                      |
| C.             | Date on which the provider receives payment                                      |                                      |
| M              | Synthesis of (a) and (b) The carrier of (a) and (b)                              |                                      |
| 9              | The earlier of (a) and (b)   |                                      |



18. What is the timing of voucher provision when the supply may be traced back to the voucher?

The date on which the voucher could be issued

The date on which the coupon must be redeemed

C. Earlier of (a) and (b)

(A)

9

(A)

(B)

whichever of (a) and (b) comes first D.

19. When the administration of certificates concerning the coupon is not recognizable, what is the supply period?

A. The date on which the voucher was issued

The date on which the coupon must be redeemed

8 Earlier of (a) and (b)

D. whichever of (a) and (b) comes first

20. What is the period of service delivery if the payment is received within days of the date of the health system?

The invoice's date of issuance A

B. The time on which the provider is paid

C. The date on which the service was rendered

The earlier of (a) and (b)

21. When resources are acquired from an affiliated firm situated beyond India, what would be the timing of service delivery?

The date on which the services were entered into the recipient's accounting record. A.

B. Payment due date

The earlier of (a) and (b)

The date on which the services were entered into the customer's records.

22. The term time of provision refers

The point at which the GST gets compensated by the products or service provider.

The moment at which GST would be paid after the seller of services and goods has taken input credit.

The moment at which products are judged to have been produced or services are assessed to have been rendered

The date on which a provider of services and goods files a GST return.

23 When a provider is obligated to pay tax under the advance charge and the bill does not become given within the specified timeframe under section 31(2), when is the delivery time of services?

The invoice's date of issuance A.

The date on which the services will be completed B.

Date of the deposit slip

The day the service is completed or when profit is earned, whichever comes first.

The day the service is completed or when profit is earned, 24. What is the estimated delivery time for service imports?

The date on which the services were entered into the recipient's books of account. Payment due date.

61st day after the invoice date.

D. Both (a) or (b)

(b) or (c), whichever date is earlier.

25 . Which one of the below will not be added to supply value?

GST

B. Interest

C. Late fee

D. Commission Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

**Indra Ganesan College of Engineering** IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Year/Sem: I - MBA Name of the Student: TAYASURYA.M. AU Register Number: 8112 1963 1015 Value Added Course on "Advanced Accounting Package with GST" MCO OUESTIONS (25X4 = 100 Marks) GST is billed as soon as the stock is ....... Federal Intra- UT Intra-state C. All of the above D. 2. The highest CGST rate legally permitted for intrastate supplies is..... 18% A. B 40% 0 20% 28%+cess Ď. 3. Which one of the below taxes is included in the GST? Central sales tax A. B. Central excise duty VAT 1 All of the above GST is imposed on the production of all services and goods, except..... B. Liquor intended for human ingestion Tobacco C. Health care service All of the above. D. The products & services networking (GSTN) performs the following activities... Facilitating registration Returning the package to the federal and state governments. B GST calculation and settlementAll Ĉ. of the above D. The term total revenue would not include the following items: 6. Inward deliveries that are taxed on an effective payment basis 8 Exempt supplies Export of goods or services or both C. Persons with the very same PAN address supplying across state lines D. Which of the below are GST's advantages? 7. Establishment of a single national market 1. Strengthening the 'Make in India' program 2. Dr. G. Balakrishnan, M.E., Ph.D., Lessening the burden of conformity on taxpayers 3. Increase in government revenue **Principal** 4. Dual taxation, as well as double taxation, are eliminated. 5. Indra Ganesan College of Engineering Select the appropriate answer from the choices below. IG Valley, Madurai Main Road 1, 3, 4, and 5 are the first, third, fourth, and fifth numbers. A. Manikandam, Trichy-620 012. 2, 3, 4 & 5 B. **©** 1, 2, 4 and 5 1, 2, 3, 4 and 5

8. What below would be included in the description of "Goods" under article 2(52) ofthe

CGST Act, 2017?

(i) Money
(ii) Actionable claim

(III) Security

(IV) Growing crops

| Choose the correct choice from the list below.   |                                      |
|--|--------------------------------------|
| A. IV only   |                                      |
| B.   |                                      |
| O II & IV  |                                      |
| D. 1&11  |                                      |
| 9) A supplier that consists of two or even more services would be class  | ified as the                         |
| and all the sale of the sale o | f tavation                           |
| ,  | · taxabon,                           |
| Mixed Both (a) and (b)   |                                      |
|  |                                      |
| D. None of the above   |                                      |
| 10. GST stands for Goods and Services Tax, and it is a tax system the  | lat covers a wide                    |
|  | at oo to to a wide                   |
| A. Goods   |                                      |
| B. Services  |                                      |
| Goods, companies and imports   |                                      |
| D. Products, systems, and exports  |                                      |
| 11. What duties are taxes on intra-State supplies?   |                                      |
| A. CGS1  |                                      |
| B SGST   |                                      |
| C. CGST and SGST   |                                      |
| D. IGST  12. Who will appound the rate of towards to be a  |                                      |
| and any any delivering the late of faxaling to be imposed independent  | the CGST Act?                        |
| The state of the s |                                      |
| The second secon |                                      |
| G GST Commission   |                                      |
| Central And state, following the GST Council's proposals   |                                      |
| 13. Which of the below import duties would be imposed?   |                                      |
|  |                                      |
| B. SGST<br>IGST  |                                      |
| 7 0007 1000  |                                      |
| A. Goods or trade supplies that are exempt, or both Export of commodities, services, or a combination of the following does not contribute to overall revenue:   |                                      |
| A. Goods or trade supplies that are exempt on both   | S- C P-1-1                           |
| B. Export of commodities, services, or a service of the services.  | or. G. Balakrishnan, M.E., Ph.D.,    |
| The state of the s | Principal                            |
|  | indra Ganesan College of Engineering |
| The value of inbound services on which reverse fee tax is charged  | IG Valley, Madurai Main Road         |
| 15 . The IGST Act of 2017 covers the whole country.  A. India as a whole, except Jammy and Kashmir.  | Manikandam, Trichy-620 012.          |
| A. India as a whole, except Jammu and Kashmir. India as a whole  |                                      |
|  |                                      |
| <ul><li>C. India as a whole, except Jammu and Kashmir and Pondicherry.</li><li>D. None of the preceding</li></ul>  |                                      |
|  |                                      |
| 16 . In the event of an advance charge, how long does it take for products  A. The invoice's period of issuance  | to be delivered?                     |
| B. The invoice must be issued by the due date.   |                                      |
| Date on which the provider receives payment  |                                      |
| D. The earlier of (a) and (b)  |                                      |
|  |                                      |
| 17 . When a provider opts for the component levy within Article 10 of its Co<br>when is the date of delivery of goods?   | 3ST Act, 2017,                       |
| A. The invoice's date of issuance  |                                      |
| B. Date on which the provider receives payment   |                                      |
| Synthesis of (a) and (b)   |                                      |
| The earlier of (a) and (b)   |                                      |
| O 100 100 100 100 100 100 100 100 100 10   |                                      |



18 . What is the timing of voucher provision when the supply may be traced back to the voucher?

The date on which the voucher could be issued

B. The date on which the coupon must be redeemed

C. Earlier of (a) and (b)

D. whichever of (a) and (b) comes first

19. When the administration of certificates concerning the coupon is not recognizable, what is the supply period?

A. / The date on which the voucher was issued

The date on which the coupon must be redeemed

The date on which the Earlier of (a) and (b)

D. whichever of (a) and (b) comes first

20 . What is the period of service delivery if the payment is received within days of the date of the health system?

A. The invoice's date of issuance

B. The time on which the provider is paid

C. The date on which the service was rendered

The earlier of (a) and (b)

21. When resources are acquired from an affiliated firm situated beyond India, what would be the timing of service delivery?

The date on which the services were entered into the recipient's accounting record.

A The date on which B. Payment due date

C. The earlier of (a) and (b)

D. The date on which the services were entered into the customer's records.

22. The term time of provision refers

A. The point at which the GST gets compensated by the products or service provider.

B. The moment at which GST would be paid after the seller of services and goods has taken input credit.

The moment at which products are judged to have been produced or services are assessed to have been rendered

D. The date on which a provider of services and goods files a GST return.

23 When a provider is obligated to pay tax under the advance charge and the bill does not become given within the specified timeframe under section 31(2), when is the delivery time of services?

A. The invoice's date of issuance

B. The date on which the services will be completed

C. Date of the deposit slip

The day the service is completed or when profit is earned, whichever comes first.

24. What is the estimated delivery time for service imports?

A. The date on which the services were entered into the recipient's books of account.

B. Payment due date.

C. 61st day after the invoice date.

D. Both (a) or (b)

(b) or (c), whichever date is earlier.

25. Which one of the below will not be added to supply value?

A. GST

B Interest

Late fee

D. Commission

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

## Value Added Course on "Advanced Accounting Package with GST"

#### ANSWER KEY

| 1 | Α | 6  | Α | 11 | С | 16 | D | 21 | C |
|---|---|----|---|----|---|----|---|----|---|
| 2 | В | 7  | C | 12 | D | 17 | D | 22 | С |
| 3 | D | 8  | С | 13 | С | 18 | A | 23 | D |
| 4 | Α | 9  | В | 14 | D | 19 | В | 24 | Е |
| 5 | D | 10 | С | 15 | В | 20 | D | 25 | Α |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Building information modelling"

#### MCQ QUESTIONS (25X4 = 100 Marks)

| 1.<br>Wh  | nich of the following is a key benefit of using BIM in construction projects?   |
|-----------|---|
| (         | Improved collaboration and communication between team members   |
| C         | Faster completion of construction projects  |
| C         | Lower construction costs  |
| C         | All of the above  |
| 2.<br>Wh  | nat is clash detection in BIM?  |
| C         | The process of identifying inconsistencies in construction drawings   |
| C         | The process of identifying inconsistencies in construction drawings  The process of identifying conflicts between different 3D models  The process of identifying issues with the construction schedule  The process of identifying problems with the construction budget |
| (         |   |
| C         | The process of identifying issues with the construction schedule.  The process of identifying problems with the construction budget.  |
| 3.<br>Wh  | at is the difference between LOD 100 and LOD 500 in BIM?  |
| C<br>deta | LOD 100 provides the most detailed information while LOD 500 provides the least ailed information   |
| C<br>deta | LOD 500 provides the most detailed information while LOD 100 provides the least ailed information   |
| (         | There is no difference between LOD 100 and LOD 500  |
| -         | LOD 100 - 1 LOD 500 refer to different transaction in DIM   |

LOD 100 and LOD 500 refer to different types of information in BIM

4. Which of the following is not a software commonly used in BIM coordination?

Revit

Navisworks

**AutoCAD** 



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| SketchUp |
|----------|
|          |

5.

### What is the purpose of a COBie file in BIM?

### To provide a list of materials and equipment needed for construction

- To provide a record of construction change orders
- To provide a standardized format for sharing construction information
- To provide a schedule for construction activities

6.

### What is the purpose of a BIM Execution Plan (BEP)?

- To outline the scope of a construction project
- To provide a schedule for construction activities
- To define the BIM processes and standards to be used throughout a construction project
- To identify potential conflicts between different 3D models

7.

## What is the purpose of a clash report in BIM?

- To identify inconsistencies in construction drawings
- To identify conflicts between different 3D models
- To identify issues with the construction schedule
- To identify problems with the construction budget

8.

# What is the purpose of a BIM model coordination meeting?

- To review and resolve clashes between different 3D models
- ( To review and approve construction change orders
- 1 To review and approve construction schedules
- ( m. To review and approve construction budgets

9.

# Which of the following is not a BIM Level of Development (LOD)?

- LOD 100
- **LOD 300**
- **LOD 400**
- LOD 600

G. Balakrishnan, M.E., Ph.D.

Indra Ganesan College of Engineering IG Valley, Madurai Main Road



# Indra Ganesan

#### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| 10.          |              |         |            |           |            |
|--------------|--------------|---------|------------|-----------|------------|
| Which of the | following is | not a l | penefit of | using BIM | in design? |

- C Improved visualization of design concepts
- Improved collaboration among team members
- Improved accuracy of construction cost estimates
- Reduced construction time

#### 11.

### What is the purpose of a BIM execution team?

- To oversee the BIM process and ensure adherence to project standards
- To provide construction schedule updates to stakeholders
- To review and approve construction change orders
- To manage the construction budget

#### 12.

Which of the following is not a BIM software feature commonly used in model coordination?

#### Clash detection

- 4D scheduling
- Visualization tools
- Cost estimating tools

#### 13.

### What is a BIM object?

A 2D drawing of a construction component

A 3D model of a construction component with associated data

A list of construction specifications

A schedule of construction activities

#### 14.

# Which of the following is not a common BIM file format?

C IFC

C COBie

C DWG

C BIMX

Principal
Indra Ganesan Cellege of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-628 012



# Indra Ganesan

### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| 15.                         |                      |                     |                     |
|-----------------------------|----------------------|---------------------|---------------------|
| Which of the following is a | key benefit of using | BIM in construction | project scheduling? |

- Which of the following is a key benefit of using BIM in construction project scheduling?
- Increased accuracy of the construction schedule
- Reduced construction costs
- Improved collaboration among team members

16.

#### What is the difference between a BIM model and a CAD model?

- A BIM model includes construction information beyond just 3D geometry
- A CAD model is more detailed than a BIM model
- There is no difference between a BIM model and a CAD model
- A BIM model is only used for visualization purposes, while a CAD model is used for construction documentation

17.

## What is the purpose of a BIM 360 platform?

- To manage and share construction information in a cloud-based environment
- To provide access to CAD software
- C To provide access to construction estimating software
- To provide access to construction scheduling software

18.

## What is the purpose of a BIM model review?

To identify potential conflicts between different 3D models

To approve construction change orders

To approve construction schedules

C To approve construction budgets

19.

# Which of the following is not a BIM software commonly used in design?

- Revit
- AutoCAD
- C Rhino
- C Navisworks

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-629 012.



# LEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

#### 20.

# What is the purpose of a BIM coordinator?

- To manage and oversee the BIM process throughout a construction project
- To manage and oversee the construction schedule
- To manage and oversee the construction budget
- To manage and oversee the construction change order process

#### 21.

# What is the purpose of a BIM 4D schedule?

- To provide a detailed list of construction activities
- To provide a 3D model of the construction project
- To link the construction schedule with the 3D model
- To provide a list of materials and equipment needed for construction. Balakrishnan, M.E., Ph.D.,

### 22.

# What is the purpose of a BIM coordination plan?

- To outline the scope of a construction project
- To provide a schedule for construction activities
- To define the BIM processes and standards to be used throughout a construction project

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

To identify potential conflicts between different 3D models

### 23.

# What is the difference between BIM and VDC?

- BIM is focused on design while VDC is focused on construction
- BIM is focused on construction while VDC is focused on design
- RIM and VDC are the same thing
- BIM and VDC are not related to each other

#### 24.

# What is the purpose of a BIM model validation?

- To ensure that the BIM model meets the required standards and specifications
- To approve construction change orders
- To approve construction schedules
- To approve construction budgets

#### 25.



# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

# Which of the following is a benefit of using BIM in facility management?

- Improved energy efficiency
- Reduced maintenance costs
- Improved occupant comfort
- All of the above

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

**VAC Coordinator** 



# COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Value Added Course on BIM

### **ANSWER KEY**

| 1 | b | 6  | d | 11 | С | 16 | d | 21 | b |
|---|---|----|---|----|---|----|---|----|---|
| 2 | d | 7  | b | 12 | d | 17 | b | 22 | С |
| 3 | b | 8  | a | 13 | b | 18 | a | 23 | d |
| 4 | c | 9  | c | 14 | С | 19 | b | 24 | b |
| 5 | a | 10 | a | 15 | b | 20 | a | 25 | b |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy-620 012.

**VAC Coordinator** 

13/5/2001 KokilA.P 811217103009 IV - CIVI for G. Balakrishnan, M.E., Ph. P. Principal Indra Ganesan College of Engineering 16 Valley, Madurai Main Road Manikandam, Trichy-620 012. 1. b) Faster completion of construction parajects d) the powers of identification peroblems with the bondouction budget

b) LoDsoo porovides the most detailed enginetion while Lods 100 powerides the approaches as perit a least detailed engineeties a) To porovide a second of construction change orders. d) To Pdientify potential conflicts belower differ 3D noodeli. b) To Polentify conglicts between different 3D a) To seriew and sesolve clarker between diff models. 8 D models () LOD ADD d) Reduced construction time 11. c) To review and apporers construction change orden. 12. d) cost estimation took 1). B) A so maded of a combaction component with

b) Incorpsed accuracy of the construction schedule co Dwg B) A CAD model & more defailed teran a 17. b) To powride access to CAD auxiliane.
18. a) To 9dentity potential consticts between different 3D madels ·e) phonex 20. a) 90 managé and over the RIM perocess theroughout a wonstantion perogéet. 21. b) To perovide a 3D model of the constant peroject 10) To define the BIM perocess and stander to be used turoughout a construction page di) BIM & VIOC ave not related to each other other construction change ord b) Reduced maintenance comport

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
India Ganesan College of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 812.

811218103002

Mahendran. M

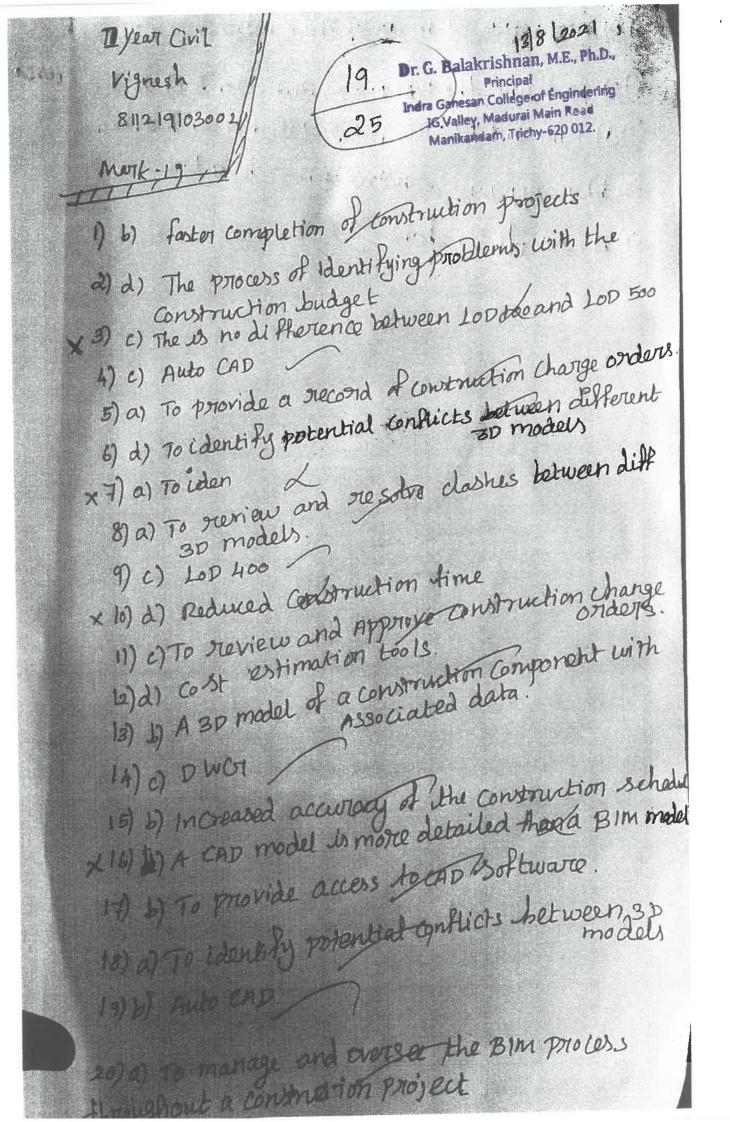
3rd civil.

Projects. 2. d). The Powers of identifying Poroblems with the construction budget 3. 20). LOD 500 Perovides the most détailed information while LOD 100 Perovides the least 4. c). Auto CAD 5. a) Jo Provide a record et construction change orders. 6.6) To identify Potential bonflicks &w different SD models. 7.5). 30 identify conflight blu different 8 a). To review e approver construction budgets 9.0). LOD. 400.

Indra Ganesah College of Engineering

To Valley Madurai Main Read 10.a). Instroved vishlögation of design Concerts 11. d). To manage the construction sudget. 12.0). lost estimating tooks ...

17). A rest model of a Construction associated data Dr. G. Balaktishnan, M.E., Ph.D. 14.0). NOG Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. 15.1). I'novared occuracy of the ancharction (b.b) A PAID model is more obtailed than a ZIM model. 18. 9. 30 identify Potential Conflicts Hw 18. 9. Auto CAS. 50.9 Horoughood a Construction Project. . 21. a). 50 provide a détailed list être activities. 29.0). Define the 2514 Propocesses & Standords & be used thoroughood a landbuckin Project 5:3.9. ISIH and VDQ you the Bame thing 5.4:15. 250 approvous construction change only 25. b). Reduced mainlenance costs:



e) b) to provide 3p model of the construction project 29(c) To define the BIM PTIOCOS and Standard to be 23) d) Bimand VDC one not related to each other 24) b) To Approve construction schedules. 25) b) All all the above 1-1-1-1-F Di. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering ( r IG Valley, Madurai viain Road Manikandam, Trichy-620 012. to be a first to be





Approved by AICTE, New Defit & Affiliated to Anna University, Chemical States Institution by UGC

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course

"Big Data Analytics"

## MCQ QUESTIONS (25X4 = 100 Marks)

- 1. What is the term used for a collection of large, complex data sets that cannot be processed using traditional data processing tools?
- a) Big Data
- b) Small Data
- c) Medium Data
- d) Mini Data
- 2. Which of the following is not one of the four V's of Big Data?
- a) Velocity
- b) Volume
- c) Variety
- d) Value
- 3. What is the process of transforming structured and unstructured data into a format that can be easily analyzed?
- a) Data Mining
- b) Data Warehousing
- c) Data Integration
- d) Data Processing

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandarn, Trichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING Medurai Main Road (NH-458) Menitandam Translitandam COLLEGE OF ENGINEERING



Madural Main Road (NH-458), Manikandam, Tiruchirappalit - 620 012 Approved by AICTE, New Delbit & Affiliated to Arms University, Chemist NAAC Accredited, 21F3 Status Institution by UGC

# 4. Which of the following is a tool used for processing and analyzing Big Data?

- a) Hadoop
- b) MySQL
- c) PostgreSQL
- d) Oracle
- 5. What is the process of examining large and varied data sets to uncover hidden patterns, unknown correlations, market trends, customer preferences, and other useful information?
- a) Data Mining
- b) Data Warehousing
- c) Data Integration
- d) Data Processing
- 6. Which of the following is not a common challenge associated with Big Data?
- a) Data Quality
- b) Data Integration
- c) Data Privacy
- d) Data Duplication
- 7. Which of the following is a technique used to extract meaningful insights from data sets that are too large or complex to be processed by traditional data processing tools?
- a) Business Intelligence
- b) Machine Learning
- c) Artificial Intelligence
- d) Data Science

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING Mindure Mein Road (NH-45R) Menitandam Truckienselli 620 (NH



Madurei Main Road (NH-45B), Manikandem, Tiruchirappelli - 620 012 Approved by AICTE, NewDelbl & Affiliated to Anna University, Chemist NAAC Accredited, 2(F) Status Institution by UGC

# 8. What is the process of storing and managing data in a way that allows for efficient retrieval and analysis?

- a) Data Warehousing
- b) Data Mining
- c) Data Integration
- d) Data Processing
- 9. Which of the following is a common programming language used for Big Data processing?
- a) C++
- b) Java
- c) Python
- d) All of the above
- 10. Which of the following is a popular NoSQL database used for Big Data processing?
- a) MySQL
- b) PostgreSQL
- c) Oracle
- d) MongoDB
- 11. What is the process of combining data from multiple sources into a single, unified view?

a) Data Mining

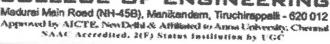
b) Data Warehousing

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan





- c) Data Integration
- d) Data Processing
- 12. What is the term used for the ability of a system to handle increasing amounts of data and traffic without compromising performance?
- a) Scalability
- b) Reliability
- c) Availability
- d) Security
- 13. What is the process of cleaning and transforming data before it is used for analysis?
- a) Data Mining
- b) Data Warehousing
- c) Data Integration
- d) Data Preprocessing
- 14. Which of the following is not a common type of data in Big Data analysis?
- a) Structured Data
- b) Semi-Structured Data
- c) Unstructured Data
- d) Simple Data

15. Which of the following is a method for analyzing data in which the slate is split into smaller subsets and processed in parallel across multiple servers or nodes?

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.







- Approard by AICTE, New Delhi & Affiliated to Arma University, Cheumal NAAC Accreditest, 21F) Status Institution by UGC
- a) Batch Processing
- b) Stream Processing
- c) MapReduce
- d) Hive
- 16. What is the process of analyzing data in real-time as it is generated?
- a) Batch Processing
- b) Stream Processing
- c) MapReduce
- d) Hive
- 17. Which of the following is a popular programming language used for data analysis and machine learning?
- a) C++
- b) Java
- c) Python
- d) All of the above
- 18. Which of the following is not a common data storage technology used for Big Data processing?
- a) Hadoop Distributed File System (HDFS)
- b) Cassandra
- c) MySQL
- d) Amazon S3

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

19. What is the process of automatically categorizing or grouping data based on its characteristics or attributes?



# Indra Ganesan COLLEGE OF ENGINEERING Medurai Mein Roed (NH-45B), Menikandem, Tiruchirappelli - 620 012 Appropriat by AICTE, New Delbit & Affiliated to Astona University, Chemnel SAAC Accredited, 2(F) Status fastilistics by U.G.



- a) Clustering
- b) Classification
- c) Regression
- d) Anomaly Detection
- 20. Which of the following is not a common data visualization tool used for Big Data analysis?
- a) Tableau
- b) QlikView
- c) Microsoft Excel
- d) D3.js
- 21. Which of the following is a popular open-source platform used for real-time data processing and analytics?
- a) Apache Kafka
- b) Apache Hadoop
- c) Apache Spark
- d) Apache Storm
- 22. Which of the following is a technique used for identifying patterns in data by training a model on a dataset and using it to make predictions on new data?
- a) Data Mining
- b) Machine Learning
- c) Natural Language Processing
- d) Text Analytics

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-628 (1.2)

23. Which of the following is not a common type of machine learning algorithm?



# Indra Ganesan COLLEGE OF ENGINEERING



- Madurai Main Road (NH-45B), Manikandam, Tiruchirappalis 620 012
  Apperoval by AICTE, New Delbit & Affiliated to Anna University, Chemical
  NAAC Accordited, 2(F) Status Institution by UGC
- a) Supervised Learning
- b) Unsupervised Learning
- c) Reinforcement Learning
- d) Decision Learning
- 24. Which of the following is a type of machine learning algorithm in which the input data is labeled and the model is trained to make predictions on new, unlabeled data?
- a) Supervised Learning
- b) Unsupervised Learning
- c) Reinforcement Learning
- d) All of the above
- 25. Which of the following is a type of machine learning algorithm in which the input data is not labeled and the model is trained to find patterns or structure in the data?
- a) Supervised Learning
- b) Unsupervised Learning
- c) Reinforcement Learning
- d) All of the above

· B.:-

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Apparent by ATCTR, Sweetleffeld: Affiliates in Appar Linkswife, C AAAC According & Style Serves Institution by GGC



Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course

"Big Data Analytics"

### MCO QUESTIONS (25X4 = 100 Marks)

- 1. What is the term used for a collection of large, complex data sets that cannot be processed using traditional data processing tools?
- a) Big Data
- b) Small Data
- c) Medium Data
- d) Mini Data
- 2. Which of the following is not one of the four V's of Big Data?
- a) Velocity
- b) Volume
- c) Variety
- d) Value
- 3. What is the process of transforming structured and unstructured data into a format that can be easily analyzed?
- a) Data Mining
- b) Data Warehousing
- c) Data Integration
- d) Data Processing

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING Medural Maio Road (NH-459), Mandander, Touchtenant & 600 (NH



Madumi Main Road (NH-458), Mandandom, Truchicappali - 620 012 Apparent to AICTE, Novilette & Affiliance to Arom Enteredo, Chemist SAAC Accordited, 2012 Seates function by Otic

- 4. Which of the following is a tool used for processing and analyzing Big Data?
- a) Hadoop
- b) MySQL
- c) PostgreSQL
- d) Oracle
- 5. What is the process of examining large and varied data sets to uncover hidden patterns, unknown correlations, market trends, customer preferences, and other useful information?
- a) Data Mining
- b) Data Warehousing
- c) Data Integration
- d) Data Processing
- 6. Which of the following is not a common challenge associated with Big Data?
- a) Data Quality
- b) Data Integration
- c) Data Privacy
- d) Data Duplication
- 7. Which of the following is a technique used to extract meaningful insights from data sets that are too large or complex to be processed by traditional data processing tools?
- a) Business Intelligence
- b) Machine Learning
- c) Artificial Intelligence
- d) Data Science

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# LEGE OF ENGINEERING



durai Main Road (NH-458), Manittandam, Tiruchirappelli - 620 012 reed by AlCTP, New Labels & Affiliated to Annual Information Chemical NASC Accordings, 2003 Status Institution by \$400.

8. What is the process of storing and managing data in a way that allows for

| _ | •    |      | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | V 444 | . P. | 0000  | y <b>v</b> ,ra. | 24011115 | 64.0.8 4.0 | managing | uala | III 2 | waty | that anows | IOL |
|---|------|------|---|-------|------|-------|-----------------|----------|------------|----------|------|-------|------|------------|-----|
| e | ffic | cier | it r                                    | etri  | eva  | l and | an              | alysis?  |            |          |      |       |      |            |     |

- a) Data Warehousing
- b) Data Mining
- c) Data Integration
- d) Data Processing

9. Which of the following is a common programming language used for Big Data processing?

- a) C++
- b) Java
- c) Python
- d) All of the above

10. Which of the following is a popular NoSQL database used for Big Data processing?

- a) MySQL
- b) PostgreSQL
- c) Oracle
- d) MongoDB

11. What is the process of combining data from multiple sources into a single, unified view?

- a) Data Mining
- b) Data Warehousing

Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING Mediral Mein Road (NH-456), Menikandern, Tiruchirappali - 620 012 Apparent by Aft TE, Next Defin & Affairm to Area & Krokessiy, Chemical SAXC According & 2(V) States (as distributed by FGC



- c) Data Integration
- d) Data Processing
- 12. What is the term used for the ability of a system to handle increasing amounts of data and traffic without compromising performance?
- a) Scalability
- b) Reliability
- c) Availability
- d) Security
- 13. What is the process of cleaning and transforming data before it is used for analysis?
- a) Data Mining
- b) Data Warehousing
- c) Data Integration
- d) Data Preprocessing
- 14. Which of the following is not a common type of data in Big Data analysis?
- a) Structured Data
- b) Semi-Structured Data
- c) Unstructured Data
- d) Simple Data
- 15. Which of the following is a method for analyzing data in which the data is split into smaller subsets and processed in parallel across multiple servers or nodes?

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Irichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING Medural Main Road (MH-468), Mandanders, Trachirappelle-820 012 Approved by ACTR, Novebell & Attraction by Acta Chemid NA C Accressived, 2(2) Status facilitation by LGC



- a) Batch Processing
- b) Stream Processing
- c) MapReduce
- d) Hive
- 16. What is the process of analyzing data in real-time as it is generated?
- a) Batch Processing
- b) Stream Processing
- c) MapReduce
- d) Hive
- 17. Which of the following is a popular programming language used for data analysis and machine learning?
- a) C++
- b) Java
- c) Python
- d) All of the above
- 18. Which of the following is not a common data storage technology used for Big Data processing?
- a) Hadoop Distributed File System (HDFS)
- b) Cassandra
- c) MySQL
- d) Amazon S3
- 19. What is the process of automatically categorizing or grouping data based on its characteristics or attributes?

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING Medural Main Road (NH-458), Manikanders, Tiruchirappalli - 620 012 Appendictly AICTE, Non-Dollid & Affiliance in Arma University, Chemial NASC Arguedited, 2(F) States pastitution by 1 64



- a) Clustering
- b) Classification
- c) Regression
- d) Anomaly Detection
- 20. Which of the following is not a common data visualization tool used for Big Data analysis?
- a) Tableau
- b) QlikView
- c) Microsoft Excel
- d) D3.js
- 21. Which of the following is a popular open-source platform used for real-time data processing and analytics?
- a) Apache Kafka
- b) Apache Hadoop
- c) Apache Spark
- d) Apache Storm
- 22. Which of the following is a technique used for identifying patterns in data by training a model on a dataset and using it to make predictions on new data?
- a) Data Mining
- b) Machine Learning
- c) Natural Language Processing
- d) Text Analytics
- 23. Which of the following is not a common type of machine learning algorithm?



# Indra Ganesan COLLEGE DF ENGINEERING Medical Main Road (NH-458), Manikandern, Tiruchirappali - 620 012 Apparised by AICTE, Novi Delick & Athliance on Arisin 1/20144448, Chemical NAAC Accredited, 2(#) Survey Bustissision by Ecc.



- a) Supervised Learning
- b) Unsupervised Learning
- c) Reinforcement Learning
- d) Decision Learning
- 24. Which of the following is a type of machine learning algorithm in which the input data is labeled and the model is trained to make predictions on new, unlabeled data?
- a) Supervised Learning
- b) Unsupervised Learning
- c) Reinforcement Learning
- d) All of the above
- 25. Which of the following is a type of machine learning algorithm in which the input data is not labeled and the model is trained to find patterns or structure in the data?
- a) Supervised Learning
- b) Unsupervised Learning
- c) Reinforcement Learning
- d) All of the above

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan



Medural Main Road (NH-458), Manifestdam, Truchinopolis - 620 012
Approved by ACTE Sembell & Affiliant to Aust Entered. Chemid
ASS According 5(F) Status Institution by E.G.

#### ANSWER KEY

| 1 | A | 6  | D | 11 | C | 16 | В | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | D | 7  | В | 12 | Α | 17 | С | 22 | B |
| 3 | С | 8  | A | 13 | D | 18 | C | 23 | D |
| 4 | Α | 9  | D | 14 | D | 19 | A | 24 | A |
| 5 | Α | 10 | D | 15 | C | 20 | C | 25 | В |

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. VAC COORDINATOR

Name: Homalatha. B

Register Dumber! 811218-104009

# Big Data Analystics

1. a) Big Date

2. d) Value

3. c) Data Integlation

4. a) Hadoop

5 b) Data wasehouse

b. d) Duter Duplication

7. B) Machine levering

8. A) Duta wasehouse

9. d) All of the above

10 d) Mongo DB

11. c) Data Integration

12. A) scalability

13 D) duta procousing

14. D) Simple Data

15. c) May Reduce.

22

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Name: Growtham.c Register Number: 811219104004

Big Data Analytics

1 A Big data

2 D Value

3 c Data integration

4 A Hadoop

5 A Data Mining

6 D Data Duplication

7 B Machine Jearning

8 D Data processing

9 D All of the about

b D Mango DB

11 e Data Integration

12 A scalability

13 C Data Sutegration

14 D simple data

15 c Map Reduce

16 B Stroam powcessing

17 L python

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.









Name of the Student:

Year/Sem:

AU Register Number:

# Value Added Course

"Solar Photovoltaic System Design"

# MILTIPLE CHOICE OUESTIONS (25X1 = 25 Marks)

| MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)   |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|
| 1. A solar cell converts light energy into  |  |  |  |  |  |  |  |  |
| a) Electrical energy b) Thermal energy c) Sound energy d) Heat energy   |  |  |  |  |  |  |  |  |
| 2. There are three types of the solar cells.  |  |  |  |  |  |  |  |  |
| a) True b) False  |  |  |  |  |  |  |  |  |
| 3. Series and parallel combination of the solar cell is known as  |  |  |  |  |  |  |  |  |
| a) Solar array b) Solar light c) Solar sight d) Solar eye   |  |  |  |  |  |  |  |  |
| 4. Full form of FF in the solar field is  |  |  |  |  |  |  |  |  |
| a) Form factor b) Fill factor c) Face factor d) Fire factor   |  |  |  |  |  |  |  |  |
| 5. Calculate Fill factor using the data: Pmax=15 W, Voc=18 V, Isc=4 A.  |  |  |  |  |  |  |  |  |
| a) .65 b) .59 c) .20 d) .98   |  |  |  |  |  |  |  |  |
| 6. Material used for making solar cell is   |  |  |  |  |  |  |  |  |
| a) Silicon b) Carbon c) Sodium d) Magnesium   |  |  |  |  |  |  |  |  |
| 7. The term photo voltaic comes from  |  |  |  |  |  |  |  |  |
| a) Spanish b) Greek c) German d) English  |  |  |  |  |  |  |  |  |
| 8. A typical output of a solar cell is  Dr. G. Balakrishnan, M.E., Ph.D.,  Principal  |  |  |  |  |  |  |  |  |
| a) 0.1 V b), 0.26 V c), 1.1 V d), 2 V  Indra Ganesan College of Engineering  IG Valley, Madurai Main Road                                 |  |  |  |  |  |  |  |  |
| 9. The efficiency of a solar cell may be in the range  Manikandam, Trichy-620 012.  |  |  |  |  |  |  |  |  |
| a) 2 to 5% b) 10 to 15% c) 30 to 40% d) 70 to 80%   |  |  |  |  |  |  |  |  |
| 10. A module in a solar panel refers to   |  |  |  |  |  |  |  |  |
| <ul> <li>a) Series arrangement of solar cells.</li> <li>b) Parallel arrangement of solar cells.</li> <li>c) None of the above.</li> </ul> |  |  |  |  |  |  |  |  |





Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 ved by AlCTE, New Delhi & Affiliand to Ames University, Che NAAC Accredited, 2(E) Status Institution by UGC

| 11. | The | current | density | of a | photo | voltaic | cell | ranges | from |
|-----|-----|---------|---------|------|-------|---------|------|--------|------|
|-----|-----|---------|---------|------|-------|---------|------|--------|------|

- a)  $10 20 \text{ mA/cm}^2$
- b). 40 50 mA/cm2 c) 20 40 mA/cm2
- d)  $60 100 \text{ mA/cm}^2$

# 12. The function of a solar collector is to convert......

- a) Solar Energy into Electricity
- b) Solar Energy radiation
- b) c). Solar Energy thermal energy
- d) Solar Energy mechanical energy

# 13. What is the rate of solar energy reaching the earth surface?

- a) 1016
- b) 865W
- c) 2854W
- d) 1912W

# 14. What is total amount of solar energy received by earth and atmosphere?

- a) 3.8 X 1024 J/year
- b) 9.2 X 1024 J/year
- c) 5.4 X 1024 J/year
- d) 2.1 X 1024 J/year

# 15. The process of converting light (photons) to electricity (voltage) is called:

a) PV effect. b) Solar cell. c) Radiation.

# 16....converts sunlight directly into solar power (electricity).

a) Battery. b) Solar cell. c) Inverter.

# 17. The most expensive type of the solar cells is:

a) Amorphous. b) Polycrystalline. c) Monocrystalline.

# 18. Which type of solar cells has highest efficiency?

a) Amorphous. b) Polycrystalline. c) Monocrystalline.

19. 5-Which type of solar cells is more efficient in low lights:

a) Amorphous. b) Polycrystalline. c) Monocrystalline.

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

# 20. All the electricity produced by the solar panels is produced as:

b) DC c) both DC and AC. a) AC

# 21. The device which converts the DC to AC is:

a) Transformer. b) Relay. c) Inverter.

# 22. Interactive PV systems operate:

a) Stand alone. b) In parallel with the grid. c) None.



# EGE OF ENGINEERING



Medural Main Road (NH-458), Manikandam, Tiruchirappalii - 620 012
Approved by AICTE, NewDellii & Affiliated to Augus University, Chemnal
NAAC Accredited, 2(F) Status Institution by DGC

- 23. The initial cost of PV systems is:
  - a) Low. b) Medium. c) High.
- 24. Energy production from PV systems depends on:
  - a) Location. b) Wheather. c) Both a and b
- 25. The running cost of PV systems is:
  - a) High. b) Low. c) Medium.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



# COLLEGE OF ENGINEERING



Medural Main Road (NH-45B), Manikandem, Tiruchirappalii - 620 012
Approved by AICTE, NewDolhi & Affiliated to Auna University, Chesmai
NAAC Accredited, 2(F) Status Lestitution by UGC



## Value Added Course

# "Solar Photovoltaic System Design"

### ANSWER KEY

| 1 | a | 6  | a | 11 | Ъ | 16 | ь | 21 | c |
|---|---|----|---|----|---|----|---|----|---|
| 2 | a | 7  | b | 12 | С | 17 | С | 22 | b |
| 3 | а | 8  | b | 13 | а | 18 | c | 23 | c |
| 4 | b | 9  | ъ | 14 | а | 19 | a | 24 | c |
| 5 | c | 10 | c | 15 | a | 20 | ъ | 25 | b |

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

P. Dheven thisan 13 08 21 81391910500 Solar Photovoltair System Design 11 year / 04 8em 1) a) Edectrical Energy 2) a) True 3) a) Sodar orray 4) b) dill factor 5) c) 20 6) a) Silicon 1) b) Gotock 8) C) 1-0K 10) C) Series and parallel arrangement worlds cells 9) 6) 10 to 45 4. 11) b) 40-50 mA/cm (2) c) 30 dos enogy thermal energy (3) a) 1016 (4) 6) 9.2 X to 34 J/geos 15) a) PV expect 16) b) Soder cell (1) e) Monooystalline Dr. G. Balakrishnan, M.E., Ph.D., Principal 18) b) poets orystalline Indra Ganesan College of Engineering IG Valley, Madurai Main Road 19) A) Amosiphous Manikandam, Trichy-620 012. 20) b) RS 21) e) Inventes In porallel with good

Grayathri . K

811917105011

Solar photovoltair System Design TV - year EEE 10750m

1 (a) Electrical series

a la was

3 (a) sola aday

4 (b) Fall factor

5.(c) . pg

6 (a) sililon

7 (b) Cryster

8 (c) 17th

9 (P) 10 to 121

10 c) societ pand parallel assangement of solar Cetts

b) 40- 50 matcm

12 c) solar energy thermal energy

13 a) job

14 6) 9.2 X 10 20 X 4900x

15 a) pv placet

16. 6) Solar Cell

17 t) Mono Crysfalline

b) polycrystalline

19 a) Amonphous

20 b) Dd

21 . c) Investor

22. b) In popular with the grid

c) High

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

811218105008

# 11) year / 06 sem

# Solar Photovoltaic System Design

1. (a) Electrical, energy

- 2. (a) True
- (a) Solar array
- 4 (6) Fill factor
- (c) . 20
- (a) Silicon
- 7 (b) Greek
- 8 (1) 1.19
- 9 (b) to to

10 (C) Series and parallel arrangement of Solar cells

11. (b) 40-50 mA Lema

12 (1) Solar Energy thermal energy

(a) 10 (b)

14 6) 9. a x 10 a4 J/yles

15. a) PV effect

16. (b) Solar cell

17 (2) Mono crystalline

18 (b) Polyarystallade

19. (a) Amorphous

20. (b) DG

al (c) Invertex

90. (b) In parallel with the

88 (1) High

an cas location

85. (b) low

Dr. G. Balakrishnan, M.E., Ph.D., Principal



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affilieted to Anna University, Chennai

Name of the Student:

Year/Sem:

**AU Register Number:** 

A. Modular, uniform PLC

# Value Added Course

### "PLC & INDUSTRIAL NETWORKING"

| MULTIPLE CHOICE QUESTIONS (252                           | X1 = 25  Marks)  |
|--|--|
| 1. Which is the first PLC model?                         |  |
| A. PLC 086   |  |
| B. PLC 085   |  |
| C. PLC 084   |  |
| D. None  |  |
| 2 How many apprecian stone does the programmeble         | logie controller have?   |
| 2. How many operation steps does the programmable A. Two | logic controller have:   |
| B. One   |  |
| C. Four  |  |
| D. Three   |  |
|  |  |
| 3. In PLC operationchecks the status at the              | ie input side  |
| A. Program scan  |  |
| B. Output scan   |  |
| C. Input scan  |  |
| D. None  |  |
| 4. The components that make PLC works can be divided int | o core areas   |
| A. Two   |  |
| B. One   |  |
| C. Four  |  |
| D. Three   |  |
|  |  |
| 5. In PLC operationretrieves the data into an o          | utput module   |
| A. Output scan   |  |
| B. Input scan  |  |
| C. Program scan  |  |
| D. None of the above                                     |  |
| 6. Before PLC's was created many industries used         |  |
| A. Capacitors  | 10.  |
| *  | Dr.C. P. I. C.   |
| B. Relays C. Resistors                                   | Dr. G. Balakrishnan, M.E., Ph.D.                                     |
|  | Principal  |
| D. None of the above                                     | Indra Ganesan College of Engineering<br>IG Valley, Madurai Main Road |
| 7. What are the types of programmable logic controllers? | Manikandam, Trichy-620 012.  |
|  |  |

- B. Fixed and Modular PLC
- C. Fixed, uniform PLC
- D. None of the above

| 8. | The | rela | ys  | col | nsist | of | ************************************** |
|----|-----|------|-----|-----|-------|----|--|
|    |     | -    | -11 |     |       |    |  |

- A. Load circuit
- B. Control circuit
- C. All of above
- D. None of above

### 9. Who invented the Programmable Logic Controller (PLC)?

- A. Dick Morley
- B. Jonas Wenstrom
- C. Thomas Davenport
- D. None of the above

### 10. In modular programmable logic controller \_\_\_\_\_

- A. Output is fixed
- B. Input is fixed
- C. All of above
- D. None of above

### 11. The control logic in a programmable logic controller can be programmed by

- A. Sequential logic
- B. Structured text
- C. FBD, ladder logic
- D. All of the above

### 12. CCTV cameras is an example for \_\_\_\_automation

- A. Office automation
- B. Scientific automation
- C. Industrial automation
- D. Building automation

### 13. The PLC's can be programmed in \_\_\_\_\_

- A. Instruction list, Functional block diagram
- B. Ladder logic, structured text
- C. Sequential function chart
- D. All of the above

## Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

### 14. The programmable logic controllers are used in

- A. Cement manufacturing
- B. Process automation plants
- C. Glass and paper industry
- D. All of the above

| 15. The sequences are classified into  |   |
|--|---|
| A. One   |   |
| B. Two   |   |
| C. Three   |   |
| D. Four  |   |
| 16. In modular type PLC, the PLC's are classified in A. Transistor output PLC                                    | nto   |
| B. Relay output PLC  |   |
| C. Triac output PLC  |   |
| D. All of the above  |   |
| 17. In fixed programmable logic controller   | 7700a   |
| A. Output is fixed   |   |
| B. Input is fixed  |   |
| C. None of the above   |   |
| D. All of above  |   |
| 18. In the water level storage tank, the manual mode plevel by monitoring theswitch input  A. High sensor switch | program controls the water                                  |
| B. Low sensor switch   |   |
| C. None of above   |   |
| D. All of above  |   |
| 19. The programmable logic controllers are classified in   | into  |
| according tophysical size in modular type PLC  |   |
| A. Micro PLC, Nano PLC   |   |
| B. Nano PLC, Mini PLC, Macro PLC<br>C. Mini PLC, Micro PLC   |   |
| D. All of the above  |   |
|  |   |
| 20. The programmable logic controller is classified int  | •   |
| A. Three   |   |
| B. One   |   |
| C. Four  |   |
| D. Two   |   |
| 21. The advantages of PLC are  | 10.   |
| A. Reliability is high   | Dr. G. Balakrishnan, M.E., Ph.D.,                           |
| B. Small in size   | Principal   |
| C. Easy maintenance  | Indra Ganesan College of Engineering                        |
| D. All of the above  | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| 22. is an example for light automation?  | 14 THOIN 020 012.   |

A. Street solar lightening

B. Automated bottle filling stations



# Indra Ganesan

COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

- C. Rocket launching
- D. Smoke detectors

### 23. The CPU has \_\_\_\_

- A. Processor
- B. Power supply
- C. Memory system
- D. All of the above

### 24. Which one is the correct sequence for PLC operation?

- A. Self-test, logic scan, output scan, input scan
- B. Self-test, input scan, output scan, logic scan
- C. Self-test z, input scan, logic scan, output scan
- D. None of the above

### 25. \_\_\_\_\_ is an example for scientific automation?

- A. Street solar lightening
- B. Automated bottle filling stations
- C. Rocket launching
- D. Smoke detectors

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



# Value Added Course

### "PLC & INDUSTRIAL NETWORKING"

### ANSWER KEY

| 1 | C | 6  | В | 11 | D | 16 | D | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | D | 7  | В | 12 | A | 17 | D | 22 | A |
| 3 | С | 8  | C | 13 | В | 18 | В | 23 | D |
| 4 | C | 9  | A | 14 | D | 19 | D | 24 | С |
| 5 | A | 10 | С | 15 | С | 20 | D | 25 | С |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

| Name    | of the student: awya V  | Your Loom! II. NV   |
|---------|---|---|
| AU Ro   | rater Number: RIVA 191060   | ID  |
|         | Value, Add  | of Courses  |
|         | "PLCA TNDUST  | A COUTHO PTWORKTNIN"                                      |
| N c     | 1   |   |
| 25      | 1 JAJR X  | (20)  |
| 3 0     | 1 2500  |   |
| AVC -   | 1   | 125   |
| 5 A/    | 1   |   |
| WA.     | X   | an option (   |
| 7) B    |   |   |
| XXC -   |   |   |
| 9) A -  |   |   |
| DYC -   | 1   |   |
| II) D   |   |   |
| 12 B >  | X   |   |
| 13 B    |   |   |
| AD      | ,   |   |
| 5) 3) × |   |   |
| 0 0     | 7   | 18.7  |
| . 10    | 7   | Dr. G. Balakrishnan, M.E., Ph.D.,                         |
| 8 B     | Ange, dies au die Mandallenen e. | Indra Ganesan College of Engineering                      |
|         | 7   | IG Valley, Madurai Main Road  Manikandam, Trichy-620 012. |
| i D     | 7   | - r/a   |
| 10      | 7   |   |
| A       | 7   |   |
| 7 D     | /   |   |
| 1       |   |   |
|         |   |   |



Madural Main Road (NH-45B), Manikandam, Timehimppalli - 620 012

Appared by AICTE, NonDelhi & Affiliand to Anna University, Chemni

NAAC Accredited, 2(F) Status Institution by UGC



### Name of the Student:

Year/Sem:

# AU Register Number:

# Value Added Course

"Application of NX CAD"

# MCQ QUESTIONS (25X4 = 100 Marks)

- 1. CAD is a
- a. Software tool
- b. Hardware tool
- c. Both software and hardware tools
- d. None
- 2. CAD prepares 2D and 3 D drawings which are
- a. Non digital
- b. Digital
- c. Both digital and non digital
- d. None
- 3. CAD is
- a. Computer aided drafting
- b. Computer aided design
- c. Both drafting and design
- d. None
- 4. CAD prepares models with computer which are
- a. Dynamic patterns
- b. Static patterns
- c. Geometric patterns
- d. None
- 5. Types of CAD software in existence
- a. 6
- b. 9
- c. 3
- d. None

Dr. G. Balakrishnan, M.E., Ph.D., Principal



# Indra Ganesan

# COLLEGE OF ENGINEERING

Macural Mein Road (NH-45B), Manikandem, Tiruchimppelli - 620 012
Approved by AICTE NewDelhi & AllEinted to Aurus University, Chemnel
NAAC Assertised, 2(F) Status Institution by Elici-



- 6. CADD stands for
- a. Firstly Computer aided drawing and design
- b. Secondly Computer aided design and drawing
- c. Computer aided design and drafting
- d. None
- 7. EDA stands for
- a. Electric design automation
- b. Electronic design automation
- c. Both (a) & (b)
- d. None
- 8. CAD technology is used in the design of
- a. Tools and machines
- b. All types of buildings
- c. Both (a) & (b)
- d. None
- 9. DPD stands for
- a. Design product development
- b. Digital product development
- c. Both (a) & (b)
- d. None
- 10. PLM related to CAD stands for
- a. Product life management
- b. Product lifecycle management
- c. Both (a) & (b)
- d. None

Dr. G. Balakrishnan, M.E., Ph.D., Principal

- 11. CAE related to Cad stands for
- a. Firstly Computer aided electronics
- b. Secondly Computer aided engineering
- c. Computer aided electrical
- d. None



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Affiliated to Arma University, Chemical NAAC Accordingly, 2(1) Status Institution by PIGC



- 12. FEM related CAD stands for
- a. Final analysis mechanics
- b. Finite element analysis
- c. Full analysis machines
- d. None
- 13. FEM related to CAD stands for
- a. Final element manufacturing
- b. Finite element Machine
- c. Finite element method
- d. None
- 14. PDM in CAD stands for
- a. Product development management
- b. Product data management
- c. Both (a) & (b)
- d. None
- 15. How many types of solids modeling?
- a. 6
- b. 2
- c. 4
- d. None
- 16. Most of the CAD require a
- a. One special hardware
- b. No special hardware
- c. Two special hardware
- d. None

Dr. G. Balakrishnan, M.E., Ph.D. Principal

- 17. CAGD in CAD stands for
- a. Firstly Computer aided geo design
- b. Secondly Computer aided geological design
- c. Computer aided geometric design
- d. None





Madural Mein Road (NH-45B), Manikandern, Tiruchirappalli - 620 012 Approved by AICTE, New Dellii & Allifland to Arms University, Chemosi NAAC Accredited, 2(F) States Institution by UGC

- 18. Computer Aided Manufacturing (CAM) is
- a. The use of software to automate a manufacturing process
- b. The use computer aided machinery to automate a manufacturing process
- c. Both (a) & (b)
- d. None
- 19. Identify the fact
- a. CAM can work without CAD
- b. CAD can work without CAM
- c. Both (a) & (b)
- d. None
- 20. CAM is computer aided manufacturing which is
- a. Manual
- b. Semi-automatic
- c. Fully automatic
- d. None
- 21. CAM is a
- a. Fast process
- b. Slow process
- c. Mixture of slow and fast process
- d. None
- 22. Components manufactured by CAM needs
- a. Further machining to achieve the final product
- b. No further machining required
- c. Very light machining is required
- d. None

23. A CNC machine translates

- a. CAD into CAM
- b. CAM into CAD
- c. Both (a) & (b)
- d. None

Dr. G. Balakrishnan, M.E., Ph.D., Principal



# Madural Mein Road (NH-458), Manikandem, Tiruchirappalii - 620 012

Approved by AICTE, New Delhi & Affiliated to Annu University, Cheurusi NAME Appreciated, Mir Status institution by Bigg



- 24. Computer Aided Manufacturing is
- a. Firstly Computer aided modeling
- b. Secondly Computer aided machining
- c. Both (a) & (b)
- d. None
- 25. Energy requirements with CAM is
- a. > than conventional machining
- b. < than conventional machining
- c. = conventional machining
- d. None

1. Deeparong VAC Coordinator

Dr. G. Balakriennan, M.E., Ph.D. Principal



Medurai Main Road (NH-45B), Manikandam, Tiruchirappali - 620 012
Approved by AICTE, NewDeltri & Affiliated to Annu University; Chemosi
NAAC Accredited, 2(F) Status Institution by UGC



### Value Added Course

## "Application of NX CAD"

### ANSWER KEY

| 1 | a | 6  | С | 11 | b | 16 | b | 21 | a |
|---|---|----|---|----|---|----|---|----|---|
| 2 | ь | 7  | ь | 12 | b | 17 | С | 22 | Ъ |
| 3 | С | 8  | С | 13 | c | 18 | с | 23 | a |
| 4 | С | 9  | b | 14 | b | 19 | b | 24 | С |
| 5 | b | 10 | b | 15 | b | 20 | c | 25 | b |

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

(1. De Plandam". VAC Coordinator



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-458), Manikandam, Tinuchirappalli - 620 012 Approved by AJCTE, New Delhi & Affiliated to Arma University, Chemned NAAC Acceedited, 2(1) Status Institution by UGC



Name of the Student: C. DeNOV

**AU Register Number:** 

## Value Added Course

"Application of NX CAD"

### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. CAD is a
- a. Software tool
- Mardware tool
- c. Both software and hardware tools
- d. None
- 2. CAD prepares 2D and 3 D drawings which are
- a. Non digital
- **b** Digital
- c. Both digital and non digital
- d. None
- 3. CAD is
- a. Computer aided drafting
- b. Computer aided design
- Both drafting and design
- d. None
- 4. CAD prepares models with computer which are
- a. Dynamic patterns
- b. Static patterns
- c. Geometric patterns
- d. None
- 5. Types of CAD software in existence
- b.
- c. 3
- d. None

Dr. G. Balak un, M.E., Ph.D., Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan

Madural Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Appareed by AICTE, New Delhi & Allithited to Amin University, Chemial
NAAC Accredited, 2(F) Status Institution by UGC



- 6. CADD stands for
- a. Firstly Computer aided drawing and design
- Secondly Computer aided design and drawing
- c. Computer aided design and drafting
- d. None

7. EDA stands for

- a. Electric design automation
- b. Electronic design automation
- c. Both (a) & (b)
- d. None
- 8. CAD technology is used in the design of
- a. Tools and machines
- b. All types of buildings
- 6. Both (a) & (b)
- d. None
- 9. DPD stands for
- a. Design product development
- b. Digital product development
- c. Both (a) & (b)
- d. None
- 10. PLM related to CAD stands for
- a. Product life management
- b. Product lifecycle management
- c. Both (a) & (b)
- d. None

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012

11. CAE related to Cad stands for

- a. Firstly Computer aided electronics
- b. Secondly Computer aided engineering
- c. Computer aided electrical
- d. None



# Indra Ganesan

### COLLEGE OF ENGINEERING

Madurei Main Road (NH-458), Manikandam, Tiruchirappali - 620 012
Approved by AICTE, NewDelbi & Alifficial to Anna University, Chemost
NAAC Accredited, 2(r) Status Lastitution by USSC



- 12. FEM related CAD stands for
- a. Final analysis mechanics
- Finite element analysis
- c. Full analysis machines
- d. None
- 13. FEM related to CAD stands for
- a. Final element manufacturing
- b. Finite element Machine
- @ Finite element method
- d. None
- 14. PDM in CAD stands for
- a. Product development management
- Product data management
- c. Both (a) & (b)
- d. None
- 15. How many types of solids modeling?
- a (
- c. 4
- d. None
- 16. Most of the CAD require a
- a. One special hardware
- (b.) No special hardware
- c. Two special hardware
- d. None

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

- 17. CAGD in CAD stands for
- a. Firstly Computer aided geo design
- b. Secondly Computer aided geological design
- Computer aided geometric design
- d. None



Madurai Mein Road (NH-458), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delbi & Affiliated to Arma University, Chemical NAAC Acceedited, 2(F) States Institution by UGC



- 18. Computer Aided Manufacturing (CAM) is
- a. The use of software to automate a manufacturing process
- b. The use computer aided machinery to automate a manufacturing process
- (e. Both (a) & (b)
- d. None
- 19. Identify the fact
- a. CAM can work without CAD
- (b) CAD can work without CAM
- c. Both (a) & (b)
- d. None
- 20. CAM is computer aided manufacturing which is
- a. Manual
- b. Semi-automatic
- **E** Fully automatic
- d. None
- 21. CAM is a
- a.) Fast process
- b. Slow process
- c. Mixture of slow and fast process
- d. None
- 22. Components manufactured by CAM needs
- a. Further machining to achieve the final product
- (b) No further machining required
- c. Very light machining is required
- d. None

23. A CNC machine translates

- (a) CAD into CAM
- b. CAM into CAD
- c. Both (a) & (b)
- d. None

Dr. G. Balakrishnan, M.E., Ph.E. Principal





Madurai Main Road (Nit-458), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, New Delhi & Affiliated to Arma University, Chemost NAAC Accredited, 2(1) Scalar institution by UCC

- 24. Computer Aided Manufacturing is
- a. Firstly Computer aided modeling
- b. Secondly Computer aided machining
- Both (a) & (b)
- d. None
- 25. Energy requirements with CAM is
- a. > than conventional machining
- (b)/< than conventional machining
- c. = conventional machining
- d. None

Deeparont

**VAC Coordinator** 

Dr. G. Balakrishnan, M.E., Ph.D. Principal

Name of the Student:

Year/Sem:

**AU Register Number:** 

A. Styling HTML pages

D. Rendering web pages

B. Storing and retrieving dataC. Handling errors on server-side

# Value Added Course

| "Handling of Tools and Technolog  | y for Disaster"  |
|---|--|
| MULTIPLE CHOICE QUESTIONS (2  | 25X1 = 25 <u>Marks</u> )   |
| 1. CRUD stands for  |  |
| A. Create, Read, Upload, Delete B. Create, Read, Upgrade, Deploy C. Create, Remove, Upgrade, Delete D. Create, Read, Update, Delete   |  |
| 2. Which of the following is not a front-end technology?  |  |
| A. HTML B. CSS C. JavaScript D. SQL   |  |
| 3. The purpose of the Front-end framework in Full stack development   | ent is   |
| <ul> <li>A. To provide the client-side interface</li> <li>B. To manage database</li> <li>C. To reduce the server load</li> <li>D. To send http requests</li> </ul>  |  |
| 4. Amongst which of the following programming language is used a  | as a server-side language?   |
| A. Python B. C++ C. JavaScript D. Both A and C  5. What is a Front-end framework?   | Dr. G. Balakrishnan, M.E., Ph.D. Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| <ul> <li>A. A development platform for developing user-interface for so</li> <li>B. A database to store and manage the data of an application</li> <li>C. A development platform for writing server-side logic</li> <li>D. None of the above</li> </ul> | •  |
| 5. Database in Full stack development is used to  |  |



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- 15. What does ICE stand for?
  - a) in-circuit EPOM
  - b) in-code emulation
  - c) in-circuit emulation
  - d) in-code EPR
- 16. Who proposed the first power model?
  - a) Tiwari
  - b) Russell and Jacome
  - c) Russell
  - d) Jacome
- 17. Which of the following offers external chips for memory and peripheral interface circuits?
- a) Embedded system
- b) Peripheral system
- c) Microcontroller
- d) Microprocessor
- 18. What kind of socket does an external EPROM to plugged in for prototyping?
  - a) Piggyback reset socket
  - b) Multi-socket
  - c) Piggyback
  - d) Single socket
- 19. Which is the single device capable of providing prototyping support for a range of microcontroller?
  - a) Umbrella device
  - b) OTP
  - c) RAM
  - d) ROM
- 20. By which instruction does the switching of registers take place?
  - a) Register instruction
  - b) EXX instruction
  - c) Instruction opcodes
  - d) AXX instruction
- 21. Which of the architecture is more complex?
  - a) MC68040
  - b) MC68030
  - c) SPARC
  - d) 8086

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



- 14. Amongst which of the following type of database is used in Full stack development?
  - A. Relational
  - B. JSON
  - C. XML
  - D. GraphOL
- 15 Amongst which of the following protocol is used to exchange the data between client and server?
  - A. HTTP
  - B. TCP/IP
  - C. SMTP
  - D. FTP
- 16. What is the purpose of CSS in Full stack development?
  - A. To style and format HTML elements
  - B. To manage http request and response
  - C. To store and retrieve data
  - D. None of the above
- 17. Which of the following statement is TRUE about AJAX?
  - A. AJAX enables asynchronous data retrieval without reloading the entire page
  - B. AJAX improves the design layout
  - C. AJAX helps in creating dynamic websites
  - D. AJAX is a popular query language for Full stack development
- 18. The role of view in model-view-controller architecture is \_\_\_\_\_.
  - A. Displaying data to the user
  - B. Optimize database queries
  - C. Handle client's request
  - D. Manage server-side routing

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

- 19. Amongst which of the following is TRUE about model-view-architecture?
  - A. The View accesses the data from the Model using AJAX calls
  - B. Model and View are independent and do not communicate directly
  - C. Model and View communicate via Controller
  - D. Model and View communicate directly
- 20. Amongst which of the following is not a NoSQL database used in Full Stack Development?
  - A. MongoDB
  - B. PostgreSQL
  - C. CouchDB
  - D. Hadoop



# Value Added Course

"Handling of Tools and Technology for Disaster"

### ANSWER KEY

| 1 | B   | 6  | В | 11 | D   | 16 | Α | 21 | A |
|---|-----|----|---|----|-----|----|---|----|---|
| 2 | D   | 7  | В | 12 | В   | 17 | A | 22 | В |
| 3 | A   | 8  | D | 13 | A&B | 18 | Α | 23 | С |
| 4 | A&C | 9  | A | 14 | A   | 19 | В | 24 | С |
| 5 | A   | 10 | С | 15 | Α   | 20 | D | 25 | D |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,





Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, C NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Year/Sem:

AU Register Number:

1. Android is Developed by

Value Added Course

"Android app development"

MCO QUESTIONS (25X4 = 100 Marks)

|    | (a) Apple   |                                      |
|----|---|--------------------------------------|
|    | (b) Microsoft   |                                      |
|    | (c) Google  |                                      |
|    | (d) Android Inc   |                                      |
| 2. | In Android which Di (a) /assests (b) /src (c) /res/values (d) /res/layout | rectory XML Layout Files are Stored. |

### 3. What is SDK?

- (a) Software Development Kit
- (b) Software Design kit
- (c) Serial Development Kit
- (d) Serial Design Kit

| 4. | Android is a    |
|----|-----------------|
|    | (a) Web Browser |

- (b) Web Server
- (c) An Operating System
- (d) All of above

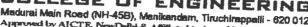
# 5. Which of the following android is licensed?

- (a) Apache/MIT
- (b) Source Forg
- (c) Both a and B
- (d) None

Dr. G. Ba G. Balakrishnan. M.F. ph. n.

Principal







Madurai Main Road (NH-458), Manikandam, Tiruchirappalii - 620 012
Approved by AICTE, NewDellid & Affiliated to Arms University, Chernal
NAAC Accredited, 2(F) Status Institution by UGC

| 6. What are the reason for android is mainly developed?                                   |
|---|
| (a) Mobile Devices  |
| (b) Servers   |
| (c) Laptops   |
| (d) Desktops  |
| 7. Android is based on the following languages  |
| 7. Android is based on the following language? (a) Java                                   |
| (b) C++·  |
| (c) C   |
| (d) None  |
| (a) None  |
| 8. APK Stand for  |
| (a) Android Pakage Kit  |
| (b) Android Phone Kit   |
| (c) Android Page Kit  |
| (d) None of above   |
|   |
| 9. API Stand for  |
| (a) Application Programming Interface   |
| (b) Android Programming Interface   |
| (c) Android Page Interface  |
| (d) Application Page Interface  |
| 7 7 1   |
| 10. in android studio, the callback that is called when activity interaction with user is |
| started is  |
| (a) onStart   |
| (b) onStop  |
| (c) onResume  |
| (d) onDestory   |
|   |
| 11. a type of service provided by android that shows messages and alerts to user is       |
| (a) Notification  |
| (b) Content Providers   |
| (c) Activity Manager  |

12. Android Studio is \_\_\_

(a) Paid

(d) None

(b) Open Source

(c) Both a and b

(d) None

Dr. G. Balakrishnan, M.E., Pn.D.,

**Principal** 



rai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 od by AICTE, New Delhi & Affiliated to Amen University, Cl NAAC Accredited, 2(F) Status Institution by UGC



# 13. Which Programming Language Is Used For Android Application Development?

- (a) Java
- (b) Kotline
- (c) Flutter
- (d) All of above

# 14. Although most people's first thought when they think of Android is Google, Android is not actually owned by Google. Who owns the Android platform?

- (a) Oracle Technology
- (b) Dalvik
- (c) Open Handset Alliance
- (d) The above statement is and Android is owned by Google

# 15. Android is an open source, Linux-based software stack.

- (a) True
- (b) False

### 16. What is the full form of OHA?

- (a) Option Handset Area
- (b) Open Handset Alliances
- (c) Original Handset Alliances
- (d) Other Handset Alliances

## 17. Which of the following methods is called in an Activity when another activity gets into the foreground?

- (a) onDestroy()
- (b) onStop()
- (c) onPause()
- (d) onExit()

# 18. What is not true about the AndroidManifest.xml file?

- (a) It declares the views used within the application.
- (b) It declares user permissions the application requires.
- (c) It declares hardware and software features used within the application
- (d) It declares application components

# 19. Which of the following is NOT a valid usage for Intents?

- (a) Activate a SQLite DB Connection
- (b) Activate a Broâdcast receiver
- (c) Activate a Service
- (d) Activate and Activity

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalii - 620 012 ved by AICTE, New Delixi & Affiliated to Arms University NAAC Accredited, 2(F) Status Essitution by UGC



# 20. What is the parent class of all Activity widgets?

- (a) Layout
- (b) ViewGroup
- (c) View
- (d) Widget

# 21. What is an anonymous class in android?

- (a) Interface
- (b) Java Class
- (c) Manifest File
- (d) A class that does not have a name but have functionalities in it

# 22. When developing for the Android OS, Java byte code is compiled into what?

- (a) Java Source Code
- (b) Dalvik Application Code
- (c) Dalvik Byte Code
- (d) Source Code

# 23. Which of the following is incorrect about intents?

- (a) They can be used to start an Activity
- (b) They can be used to start database insertion
- (c) They can be used to start a service
- (d) They can be used to start a dialog-themed activity

## 24. Which of the following Android View sub-classes uses the WebKit rendering engine to display web pages?

- (a) MapView
- (b) PageView
- (c) WebView
- (d) HttpClient

# 25. What is android view group?

- (a)Collection of views and other child views
- (b) Base class of building blocks
- (c) Layouts
- (d) None of the Above

Dr. G. Balakrishnan, M.E., Cinda

Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madural Mein Road (NH-458), Menikendam, Tiruchirappelli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Arem University, Chemnal
NAAC Accredited, 2(F) Status Institution by UGC



### Value Added Course

### ANSWER KEY

"Android app development"

| 1 | d | 6  | a | 11 | a | 16 | C  | 21 | D |
|---|---|----|---|----|---|----|----|----|---|
| 2 | d | 7  | а | 12 | b | 17 | c. | 22 | C |
| 3 | a | 8  | a | 13 | d | 18 | a  | 23 | В |
| 4 | C | 9  | а | 14 | С | 19 | a  | 24 | C |
| 5 | a | 10 | С | 15 | а | 20 | c  | 25 | a |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



# Indra Ganesan



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arum University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

Name of the Student:

Dineshim

Year/Sem: I/I

**AU Register Number:** 

811220205011

### Value Added Course

"Android app development"





- 1. Android is Developed by \_\_\_\_\_\_.
  - (a) Apple
  - (b) Microsoft
  - (c) Google
  - (d) Android Inc
- 2. In Android which Directory XML Layout Files are Stored.
  - (a) /assests
  - (b)/src
  - (c)/res/values
  - (d) /res/layout
- 3. What is SDK?
  - (a) Software Development Kit
  - (b) Software Design kit
  - (c) Serial Development Kit
  - (d) Serial Design Kit
- 4. Android is a \_\_\_\_\_
  - (a) Web Browser
  - (b) Web Server
  - (c) An Operating System
  - (d) All of above
- 5. Which of the following android is licensed?
  - (a) Apache/MIT
  - (b) Source Forg
  - (c) Both a and B
  - (d) None

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 012.



(a) Paid

(d) None

(b) Open Source

(c) Both a and b

# Indra Ganesan



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arma University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC

| 6.        | What are the reason for android is mainly developed? (a) Mobile Devices               |
|-----------|---|
|           | (b) Servers   |
|           | (c) Laptops   |
|           | (d) Desktops  |
|           |   |
| 7.        | Android is based on the following language?   |
| <b>/•</b> | (a) Java  |
|           | (b) C++   |
|           | (c) C   |
|           | (d) None  |
|           |   |
| 8.        | APK Stand for .   |
|           | (a) Android Pakage Kit  |
|           | (b) Android Phone Kit   |
|           | (c) Android Page Kit  |
|           | (d) None of above   |
|           |   |
| 9.        | API Stand for   |
|           | (a) Application Programming Interface   |
|           | (b) Android Programming Interface   |
|           | (c) Android Page Interface  |
|           | (d) Application Page Interface  |
|           |   |
| 10.       | in android studio, the callback that is called when activity interaction with user is |
|           | started is  |
|           | (a) onStart   |
|           | (b) onStop  |
|           | (c) onResume  |
|           | (d) onDestory   |
|           | •   |
| 11.       | a type of service provided by android that shows messages and alerts to user is       |
|           | (a) Notification  |
|           | (b) Content Providers   |
|           | (c) Activity Manager  |
|           | (d) None  |
|           |   |
|           |   |
|           |   |
| 12.       | Android Studio is   |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.







Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai NAAC Accredited, 2(F) Status Institution by UGC

| 13. | Which | <b>Programming</b> | Language Is | <b>Used For</b> | Android | Application | Development? |
|-----|-------|--------------------|-------------|-----------------|---------|-------------|--------------|
|-----|-------|--------------------|-------------|-----------------|---------|-------------|--------------|

- (a) Java
- (b) Kotline
- (c) Flutter
- (d) All of above
- 14. Although most people's first thought when they think of Android is Google, Android is not actually owned by Google. Who owns the Android platform?
  - (a) Oracle Technology
  - (b) Dalvik
  - ©Open Handset Alliance
  - (d) The above statement is and Android is owned by Google
- 15. Android is an open source, Linux-based software stack.
  - (a) True
  - (b) False
- 16. What is the full form of OHA?
  - (a) Option Handset Area
  - (b) Open Handset Alliances
  - (c) Original Handset Alliances
  - (d) Other Handset Alliances
- 17. Which of the following methods is called in an Activity when another activity gets into the foreground?
  - (a) onDestroy()
  - (b) onStop()
  - (c) onPause()
  - (d) onExit()
- 18. What is not true about the AndroidManifest.xml file?
  - (a) It declares the views used within the application.
  - (b) It declares user permissions the application requires.
  - (c) It declares hardware and software features used within the application
  - (d) It declares application components
- 19. Which of the following is NOT a valid usage for Intents?
  - (a) Activate a SQLite DB Connection
  - (b) Activate a Broâdcast receiver
  - (c) Activate a Service
  - (d) Activate and Activity

Dr. G. Balakrishnan, M.E., Ph.D., Principal



# Indra Ganesan COLLEGE OF ENGINEERING Maduri Mais Bond (NH 459) Menikandern Tiruchirennelli - 620 012



Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Arasa University, Chemosi NAAC Accredited, 2(F) Status Institution by UGC

| 20. | What | is | the | parent | class | of | all | Activity | widgets? |
|-----|------|----|-----|--------|-------|----|-----|----------|----------|
|-----|------|----|-----|--------|-------|----|-----|----------|----------|

- (a) Layout
- (b) ViewGroup
- (c) View
- (d) Widget

#### 21. What is an anonymous class in android?

- (a) Interface
- (b) Java Class
- (c) Manifest File
- (d) A class that does not have a name but have functionalities in it

#### 22. When developing for the Android OS, Java byte code is compiled into what?

- (a) Java Source Code
- (b) Dalvik Application Code
- (c) Dalvik Byte Code
- (d) Source Code

#### 23. Which of the following is incorrect about intents?

- (a) They can be used to start an Activity
- (b) They can be used to start database insertion
- (c) They can be used to start a service
- (d) They can be used to start a dialog-themed activity

## 24. Which of the following Android View sub-classes uses the WebKit rendering engine to

#### display web pages?

- (a) MapView(b) PageView
- (c) WebView
- (d) HttpClient

#### 25. What is android view group?

- (a)Collection of views and other child views
- (b) Base class of building blocks
- (c) Layouts
- (d) None of the Above

NameoftheStudent:

Year/Sem:

#### **AURegisterNumber:**

ValueAddedCourseon"PerformanceManagementSystemWithCase Studies"

#### MCQQUESTIONS(25X4=100Marks)

- 1. Peopleareknowntobemoreproductivewhenthey:
  - A. Are knowledgeableoftheirresultsthroughfeedbackastohowtheyare performing.
- B. Haveclear, attainable objectives (also called goals) to achieve.
- C. Areinvolvedinsettingoftasksandobjectives.
- D. (a), (b)and(c)
- 2. Itisnecessarytoreviewthegoalsoftheorganization to:
  - A. Createalinkagebetweenunitsofperformanceandthepreferredorganizational goals.
- B. Maximizeprofitsoftheorganization
- C. Aligntheindividualandorganizationalgoals
- D. Createdistinctiveness.
- 3. Performanceagreementaimsathelping
- A. Theorganizationtoworkeffectively.
- B. Decidethemattersofcompensation
  - C. The stafftodevelop, put in place at least one more chance to meet the expectation of the staff members.
- D. Identifythetrainingneeds

#### 4. An effective performance management helps in

- A. Evaluationofajob
- B. Evaluationofcompetitivenessinmarket
- C. Evaluatethedecisiontakingcapacityofmanagers
  - D. Evaluatethedecisiontakingcapacityofthesubordinates
- 5. Performancemanagementisaninterlinkedprocessbecause:
- A. Itinterlinkstheorganizationwiththeglobalizedmarket
  - B. Itinterlinkswithotherkeyprocessessuchasbusinessstrategy,employee development, total quality management and other business processes.
- C. Itinterlinkstheindividualgoalswiththeorganizationalgoals.
- D. Itinterlinksthemanagementandsubordinates
- 6. Performancemanagementisacontinuous process because:
- A. Itinvolvesthehumanresourceoftheorganization
- B. Itinvolvestheworkenvironmentoftheorganization.
  - C. Itinvolvesplanning, sharing, measuring, interacting, motivating and development of employees as well as organization
- D. Itinvolvesthestrategiesoftheorganization
- 7. Whichoneoftheseisfunctionofperformanceappraisalsystem?
- A. Traininganddevelopment
- B. Compensationstrategies
- C. Promotion
- D. All of the above
- 8. Effectivenessofanappraisalsystemdependsupon:
- A. Thedegreeofclarityofroles
- B. Thestructure, design and method of appraisal system

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



- C. Theleveloforganizationalcommitment
- D. Thedegreeofhonestyintheanswersoftheappraisalsystem
- 9. WhatdidtheHawthorneexperimentsdiscover?
- A. Thatpeopleneedtobelongtoa'socialgroup'
- B. Thatpeopleneedheatandgoodlightingtoworkwell
- C. Moneyisa motivator
- D. It makesnodifferencehowyoutreatpeopleatworkinrelationtotheir behavior.
- 10. Adistinctioncanbemadebetween 'hard'and'soft'typesofHRM.SoftHRM can be characterized by:
- A. Seeingpeopleasorganizationalassets
- B. AquantitativeapproachtoHRM
- C. Amutualcommitmentofemployees and employers to the goals of the organization
- D. Beingdrivenbycosts
- 11. Theresourcebasedviewofthefirmisonethatbelievesthekeyhuman resources are:
- A. Thoseemployeesnotmembersoftradeunions
- B. Knowledgeworkers
- C. Usedtocreatenewcapabilitiesthathelpachieveorganisationalsuccess
- D. Thosewillingtoworkovertime
- 12. DoHRactivitieshaveaneffectonemployeeandmanagerialbehavior: Dr. G. Balakrishnan, M.E., Ph.D.
- A. Yes, butthese effects can be negative as well as positive
- B. HRhaslimitedimpactoneitheremployeebehaviourormanagerial
- C. HRimpactsonemployeebehaviourbutnotonmanagerial
- D. No, it is managerial behaviour which impacts on HR
- 13. The view that employees are critical to organizational success is now generally accepted. Does this mean that?
- A. Allemployeeshavethesamevalueorpotentialfortheorganisation
- B. ItreflectstheunprecedentedsuccessofHRpractitionerstodeliver
- C. Goodmanagementofpeoplewillprevail
- D. Managingthehumanresourcehasbecomeevenmoreimportantbecauseitis the one resource most difficult to replicate
- 14. ThemostcommonactivitiesperformedbyHR, which areoftenoutsourced, are:
- A. Recruitmentanselection
- B. Occupationalhealth, payroll, pensions and training
- C. Humanresourceplanning
- D. Assessmentcentres
- 15. Performancemanagementshouldbeseenasaprocesswhichis a:Onceayeartask
- A. Twiceayear activity
- B. Ongoingprocessorcycle
- C. Isengagedinwhentheappraisalsarecarriedout
- D. Whatwillmakesomeorganizationsmoresuccessful,
- 16. thereforemorelikely to survive and prosper, than others?
- A. Creatingculturesandsystemsinwhichstaffcanusetheirtalents
- B. Creatingmanagementsystemstoensurehighperformancefromeveryone
- C. Creating superior organisations
- D. Onlyrecruitingtalentedpeople
- 17. Theaimofperformancemanagementisto:

D:

Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012. A. Consolidategoalsetting.

- B. Ensureemployee'sperformanceissupportingthecompany'sstrategicaims.
- C. Ensureemployeehasthetoolsneededtoperformthejob.
- 18. Evaluate employee's performance against standards.
  Theincreasinguseofperformancemanagementreflects:
- A. Everyemployee's efforts must focus on helping the company achieve its strategic goals.
- B. ThepopularityofTQMconcepts.
- C. Traditional performance appraisals are often counter-productive.
- D. Alltheabove.
- 19. Reasonsforappraisingasubordinate'sperformanceinclude:
- A. Appraisalsplayapartintheemployer'ssalaryraisedecisions.
- B. Thesupervisorandtheemployeetogetherdevelopaplan forcorrectingthe employee's deficiencies.
- C. Appraisalsplayanintegralroleinperformance management.
- D. All the above.
- 20. Supervisorscanensurethatemployeesaresatisfied with their performance appraisals by ensuring that employees:
- A. Havetheopportunitytopresenttheirideasandfeelings.
- B. Haveahelpfulandconstructivesupervisorconducttheinterview.
- C. Donotfeelthreatenedduringtheinterview.
- D. All the above.
- 21. Whichofthefollowingstatementsaboutperformance managementsystemsis not true?
- A. Theyencourageashort-termviewamongmanagers.
- B. Recommendationsareprescriptive and suggestone bestway.
- C. Theycausestressforemployees.
- D. Theyimproveorganizationalperformanceinthelong-term.
- 22. The process of evaluating an employee's current and/or past performance relative to his or her performance standards is called \_\_\_\_\_.
- A. recruitment
- B. employeeselection
- C. performanceappraisal
- D. organizationaldevelopment
- 23. When goal setting, performance appraisal, and development are consolidated into a single, common system designed to ensure that employee performance supports a company's strategy, it is called
- A. strategicorganizationaldevelopment
- B. performancemanagement
- C. performanceappraisal
- D. human resource management

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 24.    | Performance management combines performance appraisal with | to ensure |
|--------|--|-----------|
| that e | employee performance is supportive of corporate goals.     |           |
| A.     | goalsetting  |           |
| -      |  |           |

- training B.
- C. incentive systems
  - All the above
- Managersfollowingaperformance managementapproachtoappraisalswill 25. usually meet with employees on a \_\_\_\_basis.
- weekly
- B. monthly
- C. bi-annual
- yearly D.

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



NameoftheStudent: Aran. 12

AURegisterNumber: 811220631002.

Year/Sem: 1 - MBA

|  | /25]                                 |
|--|--------------------------------------|
| ValueAddedCourseon"PerformanceManagemen  | tSystemWithCase Studies"             |
| 1. Peopleareknowntobemoreproductivewhenthey: A. Are knowledgeableoftheirresultsthroughfeedb performing.  Haveclear, attainable objectives (also calledgo als) to ac Are involved in setting of tasks and objectives.  D. (a), (b) and (c)  | OMarks) ackastohowtheyare thieve.    |
| 2. Itisnecessarytoreviewthegoalsoftheorganization t  | 0:                                   |
| B. Createalinkagebetweenunitsofperformanceands  Maximizeprofitsoftheorganization   | thepreferredorganizational goals     |
| B. Maximizeprofitsoftheorganization C. Aligntheindividual and organization   | South,                               |
| San Andrew Control of the Control of |                                      |
| The state of the s |                                      |
|  |                                      |
| A. Theorganizationtoworkeffectively  |                                      |
| B. Decidethemattersofcompensation  |                                      |
| C. Thestafftodevelop nutinplaceatleagtan and a   | Mantage - 443                        |
| T WIND STATE THE HINEIN  | nceromeeme                           |
| 1 Identifythetrainingneeds   |                                      |
| 4. Aneffectiveperformancemanagementhelpsin   |                                      |
| A. Evaluationofajob  | Dr. G. Balakrishnan, M.E., Ph.D.,    |
| B. Evaluation of competitiveness in market   | Principal                            |
| Evaluatethedecisiontakingcapacityofmanagers  | Indra Ganesan College of Engineering |
| D. Evaluatethedecisiontakingcapacityofthesubordina   | IG Valley, Madurai Main Road         |
| 5. Performancemanagementisaninterlinkedprocessbe   | ates Manikandam, Trichy-62® 012.     |
| A Itinterlinkstheorganizationwiththeglobalizedmarket   | cause:                               |
| B. Itinterlinkswithotherkovana   |                                      |
| B. Itinterlinkswithotherkeyprocessessuchasbusinesss development, total quality management and attacks.   | strategy,employee                    |
|  |                                      |

development, total quality management and other business processes.

C. Itinterlinkstheindividualgoalswiththeorganizationalgoals.

Itinterlinksthemanagementandsubordinates D.

6. Performancemanagementisacontinuous process because: A.

Itinvolvesthehumanresourceoftheorganization Itinyolvestheworkenvironmentoftheorganization. B.

Itinvolvesplanning, sharing, measuring, interacting, motivating and development of employees as well as organization

D. Itinvolvesthestrategiesoftheorganization

Whichoneoftheseisfunctionofperformanceappraisalsystem? 7. A.

Traininganddevelopment Compensationstrategies

(B) Promotion

D. All of the above

Effectivenessofanappraisalsystemdependsupon: Thedegreeofclarityofroles

Thestructure, designand method of appraisal system

| f 1 | Till I d                 |               |
|-----|--------------------------|---------------|
| C.  | 1 Deleve of organization | an anneal to  |
| 4.  | Theleveloforganization   | iaicommitment |

- Thedegreeofhonestyintheanswersoftheappraisalsystem D.
- WhatdidtheHawthorneexperimentsdiscover? 9.
- Thatpeopleneedtobelongtoa'socialgroup' A.
- B. Thatpeopleneedheatandgoodlightingtoworkwell
- C. Moneyisa motivator
- 0 It makesnodifferencehowyoutreatpeopleatworkinrelationtotheir behavior. 10.
- Adistinctioncanbemadebetween 'hard'and'soft'typesofHRM.SoftHRM can be characterized by:
- Seeingpeopleasorganizationalassets A.
- B. AquantitativeapproachtoHRM
- Amutualcommitmentofemployees andemployerstothegoalsofthe organization
- D. Beingdrivenbycosts
- Theresourcebasedviewofthefirmisonethatbelievesthekeyhuman 11.

#### resources are:

- A. Thoseemployeesnotmembersoftradeunions
- В. Knowledgeworkers
- Usedtocreatenewcapabilitiesthathelpachieveorganisationalsuccess
- Thosewillingtoworkovertime
- 12. DoHRactivities have an effect on employee and managerial behavior? A.
- Yes, butthese effects can be negative as well as positive B.
- HRhaslimitedimpactoneitheremployeebehaviourormanagerial
- HRimpactsonemployeebehaviourbutnotonmanagerial C.
  - No, it is managerial behaviour which impacts on HR
- The view that employees are critical to organization alsu ccess is now generally a constant of the constant13. accepted. Does this mean that?
- Allemployeeshavethesamevalueorpotentialfortheorganisation B ItreflectstheunprecedentedsuccessofHRpractitionerstodeliver
- Goodmanagementofpeoplewillprevail
- Managingthehumanresourcehasbecomeevenmoreimportantbecauseitis the one D. resource most difficult to replicate
- ThemostcommonactivitiesperformedbyHR, which are often outsourced, are: 14.
- Recruitmentanselection
- B. Occupationalhealth, payroll, pensions and training
- C. Humanresourceplanning
  - Assessmentcentres
- Performancemanagementshouldbeseenasaprocesswhichis a:Onceayeartask A.
- Twiceayear activity
- B. Ongoingprocessorcycle
- Isengagedinwhentheappraisalsarecarriedout (D)
  - Whatwillmakesomeorganizationsmoresuccessful,
- 16. thereforemorelikely to survive and prosper, than others?
  - Creatingculturesandsystemsinwhichstaffcanusetheirtalents
- Creatingmanagementsystemstoensurehighperformancefromeveryone
- Creatingsuperiororganisations
- D. Onlyrecruitingtalentedpeople
- 17. Theaimofperformancemanagementisto:

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



BC.

D.

human resource management

COLLEGE OF ENGINE Medurai Main Road (NH-45B), Manikandam, Tiruchi

| - pro-         | Approved by AICTE, NewDelhi & Affiliated to Anna University, Chenna                               |
|----------------|---|
| A.             | Consolidategoal setting.  |
| В.             | Ensureemployee'sperformanceissupportingthecompany'sstrategicaims.                                 |
| C <sub>s</sub> | Ensureemnloveehasthetoolsneedadtanaafarmthaiak  |
| 18.            | Evaluate employee's performance against standards   |
|                | Theincreasinguseofperformancemanagementreflects:  |
| Α.             | Everyemployee's efforts must focus on helping the company achieve its strategic                   |
| goal           | S.  |
| B.             | Thepopularity of TQM concepts.  |
| (C)            | Traditionalperformanceappraisalsareoftencounter-productive.                                       |
| D.             | Alltheabove.  |
| 19.            | Reasonsforappraisingasubordinate'sperformanceinclude:   |
| A.             | Appraisalsplayapartintheemployer'ssalaryraisedecisions  |
| (B)            | Thesupervisorandtheemployeetogetherdevelopaplan forcorrectingthe employee's                       |
| C.             | encies.   |
| D.             | Appraisalsplayanintegralroleinperformance management.   |
| 20.            | All the above.  |
|                | Supervisorscanensurethatemployeesaresatisfied with their performance                              |
|                | hisals by ensuring that employees:  |
| B<br>C.        | Haveshelpfulondagastration  |
| C              | Haveahelpfulandconstructivesupervisorconducttheinterview.  Donotfeelthreatenedduringtheinterview. |
| D.             | All the above.  |
| 21.            |   |
| true?          | Whichofthefollowingstatementsaboutperformance managementsystemsis not                             |
| A.             | Theyencourageashort-termviewamongmanagers.  |
| В.             | Recommendationsareprescriptiveandsuggestonebestway.   |
| C              | They causest ress for employees.  |
| (f)<br>22.     | Theyimproveorganizationalperformanceinthelong-term.   |
| 22.            | Theprocessofevaluatinganemployee'scurrentand/orpastperformance                                    |
| relativ        | e to his or her performance standards is called   |
| A.             | recruitment   |
| B. /           | employeeselection   |
|                | performanceappraisal  |
| D. or          | ganizationaldevelopment   |
| 23.            | When goal setting, performance appraisal, and development are consolidated                        |
| 11140451       | ugic,commonsystem designed to ensure that employee performances upports a                         |
| compan         | by's strategy, it is called   |
| 2              | strategicorganizationaldevelopment  |
|                | performancemanagement   |
| $C_{i-1}$      | performanceappraisal  |

|       | 24.  | Performance management combines performance appraisal with temployee performance is supportive of corporate goals. | to ensur |
|-------|------|--|----------|
| - Ann | (A)  | goalsetting  |          |
|       | B.   | training   |          |
|       | C.   | incentive systems  |          |
|       |      | D. All the above   |          |
|       | 25.  | Managersfollowingaperformance managementapproachtoappraisals   | swill    |
|       | usua | ally meet with employees on abasis.  |          |
| 3     | (A.) | weekly   |          |
|       | B.   | monthly  |          |

C. bi-annual

D. yearly

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



| Approved by AICTE, NewDelhi & Affiliated to A  | INEERING Tiruchirapalii- 620 012 Inna University, Chennai |
|--|---|
| NameoftheStudent: Thirupathy. V  | Year/Sem: I - MBA   |
| AukegisterNumber: 811220631029 (25)  |   |
| ValueAddedCourseon"PerformanceManagementSystemW  | VithCase Studies"   |
| MCOQUESTIONS(25X4=100Marks)  |   |
| r copiedreknowntobemoreproductivewhenther.   |   |
| A. Are knowledgeableoftheirresultsthroughfeedbackerteb   | wthevare  |
| Partitions.  | · · · · · · · · · · · · · · · · · · ·                     |
| Haveclear, attainable objectives (also called goals) to achieve.   |   |
| Aremvolvedinsettingoftasksandobjectives.   |   |
| (-)4 (-)min(c)   |   |
|  |   |
| (B) Createalinkagebetweenunitsofperformanceandthenroform   | edorganizational goals                                    |
|  | Santa godis.  |
| 8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1  |   |
| The state of the s |   |
|  |   |
|  |   |
| - vota di chi accesso i con i pensanon   |   |
| C. Thestafftodevelop, putinplaceatleast one more chance to meet expectation of the staff members.  | the   |
| D Identifythetrainingneeds   | 10 .  |
| 4. Aneffectiveperformancemanagementhelpsin   |   |
| A. Evaluationofajob  | Dr. C. Balakwighman ME Dh.D.                              |
| B. Evaluation of competitiveness in market   | Dr. G. Balakrishnan, M.E., Ph.D.,<br>Principal            |
| Evaluatethedecisiontakingcapacityofmanagers  | Indra Ganesan College of Engineering                      |
| D. Evaluatethedecisiontakingcapacityofthesubordinates  | IG Valley, Madurai Main Road                              |
| 5. Performancemanagementisaninterlinkedprocessbecause:   | Manikandam, Trichy-620 012.                               |
| A. Itinterlinkstheorganizationwiththeglobalizedmarket  | ,   |
| B. Itinterlinkswithotherkeyprocessessuchasbusinessstrategy,en  |   |
| development, total quality management and other business process   | nployee   |
| - Italian miksule individual goals with the organizational casts   | es.   |
| D. Itinterlinksthemanagementandsubordinates  |   |
| 6. Performancemanagementisacontinuous process because:   |   |
| 21. Ituivoivesinenumanresourceoffheoroanization  |   |
| D. Ittinyolvestheworkenvironmentoftheorganization  |   |
| Itinvolvesplanning sharing measuring interaction and   | •   |
| as organization  | and   |
| D. Innvolvesthestrategiesoftheorganization   |   |
| /. Whichoneoftheseisfunction of performance approise land and  |   |
| Tanninganddevelopment  |   |
| B) Compensationstrategies  |   |

Effectivenessofanappraisalsystemdependsupon: Thedegreeofclarityofroles B. Thestructure, designand method of appraisal system

D. 7.

D.

Promotion

All of the above

| B. Miller |                                       |
|-----------|---------------------------------------|
| C.        | The leve of organizational commitment |
| D. '      | Thedegreeofhonestyintheanswersofthe   |
| Ω         | WWITE A DO BAN WW. AN                 |

eappraisalsystem

WhatdidtheHawthorneexperimentsdiscover? 9.

A. Thatpeopleneedtobelongtoa'socialgroup'

B. Thatpeopleneedheatandgoodlightingtoworkwell

C. Moneyisa motivator

D) It makes no difference how you treat people at work in relation to their behavior.

10. Adistinctioncanbemadebetween 'hard'and'soft'typesofHRM.SoftHRM can be characterized by:

A. Seeingpeopleasorganizationalassets

B. AquantitativeapproachtoHRM

(2) Amutualcommitmentofemployees and employers to the goals of the organization

D. Beingdrivenbycosts

11. Theresourcebasedviewofthefirmisonethatbelievesthekeyhuman resources are:

Thoseemployeesnotmembersoftradeunions

Knowledgeworkers

Usedtocreatenewcapabilitiesthathelpachieveorganisationalsuccess

D. Thosewillingtoworkovertime

12. DoHRactivitieshaveaneffectonemployeeandmanagerialbehavior?

A. Yes, but these effects can be negative as well as positive

В. HRhaslimitedimpactoneitheremployeebehaviourormanagerial

C. **HRimpactsonemployeebehaviourbutnotonmanagerial** No, it is managerial behaviour which impacts on HR D)

13. Theviewthatemployeesarecriticaltoorganizationalsuccessisnowgenerally accepted. Does this mean that?

Allemployeeshavethesamevalueorpotentialfortheorganisation **B**.) ItreflectstheunprecedentedsuccessofHR practitioners to deliver Goodmanagementofpeoplewillprevail

D. Managingthehumanresourcehasbecomeevenmoreimportantbecauseitis the one resource most difficult to replicate

14. ThemostcommonactivitiesperformedbyHR, which areoftenoutsourced, are:

Recruitmentanselection

B. Occupationalhealth, payroll, pensions and training

C. Humanresourceplanning

D. Assessmentcentres

15. Performancemanagementshouldbeseenasaprocesswhichis a:Onceayeartask

A. Twiceayear activity

B. Ongoingprocessorcycle

Asengagedinwhentheappraisalsarecarriedout

Whatwillmakesomeorganizationsmoresuccessful,

thereforemorelikely to survive and prosper, than others?

Creatingculturesandsystemsinwhichstaffcanusetheirtalents Creatingmanagementsystemstoensurehighperformancefromeveryone

Creatingsuperiororganisations

Onlyrecruitingtalentedpeople

17. Theaimofperformancemanagementisto:

nan, M.E., Ph.D. Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



performanceappraisal

human resource management

# Indra Ganesan

COLLEGE OF ENGINEERING
Medural Main Road (NH-45B), Manikandam, Tirachirapatii-620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

| Argui    | Approved by AICTE, NewDelhi & Affiliated to Anna University, Chenna  |
|----------|--|
| A.       | Consolidategoalsetting.  |
| B.       |  |
| С,       | The provided in the provided th |
| B        | Evaluate employee's performance against standards  |
|          | 2. Theincreasinguseofperformancemanagementreflects:  |
| A.       | Everyemployee's efforts must focus on helping the company achieve its account.   |
| -        | als.   |
| B.       | ThepopularityofTQMconcepts.  |
| D.       | Traditionalperformanceappraisalsareoftencounter-productive.  |
|          | Alltheabove.   |
| 19.      | Reasonsforappraisingasubordinate'sperformanceinclude:  |
| TA.      | Appraisalsplayapartintheemployer's salary raised acisions  |
| B.       | I nesupervisorandtheemployeetogetherdevelopenlan f   |
| defic    |  |
| (C)      | Appraisalsplayanintegralroleinperformance management.  |
| D.       | All the above.   |
| 20.      | Supervisorscanensurethatemployeesaresatisfiedwiththeirperformance  |
| app      | servers of cusulant first cuidiologics.  |
| (A)      | Havetheopportunitytopresenttheirideasandfeelings.  |
|          | I TO THE PROPERTY OF THE PROPE |
| C.       | Donotteethreatenedduringtheinterview.  |
| D.       | All the above.   |
| 21.      | Whichofthefollowingstatementsaboutperformance managementsystemsis not  |
| true's   |  |
| A.       | Theyencourageashort-termviewamongmanagers.   |
| B.       | Recommendationsareprescriptive and suggestone hestway  |
| C.       | ineycausestressforemployees.   |
| 0        | Theyimproveorganizationalperformanceinthelong-term.  |
| 22.      | Heprocessofevaluatinganemployee's comments and former and  |
| relati   | and the performance standards is called  |
| /%.      | recruitment  |
| B.       | employeeselection  |
| 8        | performanceappraisal   |
| D. 0     | rganizationaldevelopment   |
| 23.      | When goal setting, performance appraisal, and development are consolidated   |
| mioas    |  |
| A.       | , a stated, it is called   |
| A.<br>B. | strategicorganizationaldevelopment   |
| D,       | performancemanagement  |

|    | Performance management combines performance appraisal with employee performance is supportive of corporate goals. | to | ensure |
|----|---|----|--------|
| A. | goalsetting   |    |        |
| B. | training  |    |        |

incentive systems

D. All the above

25. Managersfollowingaperformance managementapproachtoappraisalswill usually meet with employees on a \_\_\_\_\_basis.

weekly
B. monthly
C. bi-annual

D. yearly



# $Value Added Course on {\bf ``Performance Management System With Case Studies''}$

#### **ANSWERKEY**

| 1 | В | 6  | C | 11 | A | 16 | A | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | A | 7  | В | 12 | D | 17 | D | 22 | C |
| 3 | D | 8  | A | 13 | В | 18 | C | 23 | В |
| 4 | С | 9  | D | 14 | A | 19 | В | 24 | В |
| 5 | A | 10 | C | 15 | D | 20 | Α | 25 | A |

( ).··



Academic Year 2019-2020 - Odd Semester

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Estimation and current practices in civil engineering"

## MCQ QUESTIONS (25X4 = 100 Marks)

| <ol> <li>The process of calculating the quan<br/>connection with the work is called</li> </ol>   | tites and costs of the                    | e various items required in   |
|--|---|---|
| a) Estimate  | (b) Costing                               |   |
| c) Quantity surveying  | (d) Estimating                            |   |
| 2. For any construction work, the proc   |   | e quantities of various   |
| items of work is called  | ·   | •   |
| a) Estimate  | (b) Costing                               |   |
| c) Quantity surveying  | (d) Estimating                            |   |
| 3. The process of determining the prob   | pable cost of the pro                     | iect, after knowing the   |
| quantities of various items and their  | r unit rate is called _                   | ·   |
| a) Estimate  | (b) Costing                               | (A).  |
| c) Quantity surveying  | (d) Estimating                            |   |
| 4. To make out an estimate for a work  | the following data a                      |   |
| a) material b) item rate  5. Sinking fund is   | c) labour<br>d) transportation            | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Read |
| a) The fund for rebuilding a structure when its economic life is over b) Raised to meet maintenance costs  | authorities by t<br>d) A part of the me   | oney kept in reserve for ional structures and   |
| <ul> <li>6. Pre-tender stage requires</li> <li>a) Acquisition of land</li> <li>b) Selection of site</li> <li>7. Select the correct statement.</li> </ul> | c) Finalization of al<br>d) All the above | ignment of work   |



## Academic Year 2019-2020 - Odd Semester

| a) | A critical path | always | begins | at | the | verv |
|----|-----------------|--------|--------|----|-----|------|
|    | first event     | -      | _      |    |     |      |

- b) A critical path always terminates at the last event
- c) Critical activities control the project duration
- d) Critical activity is the one for which free float is zero

## 8. Free float for any activity is defined as the difference between

- a) Its earliest finish time and earliest start time for its successor activity
- c) Its latest finish time and earliest start time for its successor activity
- b) Its latest start time and earliest start time
- d) Its earliest finish time and latest start time for its successor activity

#### 9. In CPM analysis.

- a) Emphasis is given to activities
- b) Uncertainties are not allowed
- c) Activities are represented by arrows
- d) All the above

## 10. The total estimated cost of building electrification usually accounts for

a) 2%

c) 1%

b) 3%

d) 12%

## 11. The constraints in case of resource smoothening operation would be

a) Resources

c) Both resources and project duration time

b) Project duration time

d) None of the above

#### 12. The time which results in the least possible construction cost of an activity, is known as

- a) Normal time
- b) Slow time

- c) Crash time
- d) Standard time

Dr. G. Balakrishnan, M.E., Ph.D.,

#### Principal 13. Various activities of a project, are shown on bar charts by Indra Ganesan College of Engineering

- a) Vertical lines
- b) Horizontal lines

- c) Dots
- IG Valley, Madurai Main Road
- d) Crosses
- Manikandam, Trichy-620 012.

## 14. Total float for any activity is defined as the difference between

- a) Its latest finish time and earliest start time c) Its latest start time and earliest start time for its successor activity
- b) Its latest start time and earliest finish time d) Its earliest finish time and earliest start time for its successor activity

## 15. One building has floor area 150 m² and the floor area rate is 6500 Rs. Calculate the estimated cost of the building.

a) 786000 Rs.

c) 486000 Rs.



## Academic Year 2019-2020 - Odd Semester

b) 756000 Rs.

d) All the above

## 16. Residential buildings are treated as

- a) Light construction
- b) Heavy construction

- c) Industrial construction
- d) Private construction

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

## 17. Pick up the PERT event from the following:

- a) Digging of foundation started
- b) Digging of foundation completed
- c) Laying of concrete started
- d) All the above

## 18. The process of incorporating changes and rescheduling or replanning is called

a) Resource levelling

c) Updating

b) Resource smoothening

d) Critical path scheduling

## 19. Pick up the correct statement from the following:

- a) Programme Evaluation and Review Technique, is event oriented
- b) Programme Evaluation and Review Technique is not event oriented
- c) Critical Path Method is event oriented
- d) Critical Path Method is not event oriented

## 20. Time and progress chart of a construction, is also known as

- a) Bar chart
- b) Gantt chart

- c) Modified Mile stone chart
- d) All the above

# 21. The technique for establishing and maintaining priorities among the various jobs of a project, is known as

- a) Event flow scheduling technique
- b) Critical ratio scheduling

- c) Slotting technique for scheduling
- d) Short interval scheduling

#### 22. A CPM family includes

- a) CPA (Critical Path Analysis)
- b) CPP (Critical Path Plotted)
- c) MCE (Minimum Cost Expenditure)
- d) All the above

### 23. Critical path

- a) Is always longest
- b) Is always shortest

- c) May be longest
- d) May be shortest



COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

## Department of CIVIL ENGINEERING

## Academic Year 2019-2020 - Odd Semester

24. \_\_\_\_\_ is prepared on the basis of plinth area of building.

a) Cube rate estimate

c) maintenance estimate

b) supplementary estimate

d) rough estimate

25. The most suitable type of equipment for compaction of cohesive soils is

a) Smooth-wheeled rollers

c) Sheep foot rollers

b) Vibratory rollers

d) Tampers

Lancetus Minator

HoD/CIVIL

(D):



Academic Year 2019-2020 - Odd Semester

Value Added Course on Estimation and current practices in civil engineering

#### **ANSWER KEY**

| 1 | b | 6  | d | 11 | ь | 16 | a | 21 | b |
|---|---|----|---|----|---|----|---|----|---|
| 2 | d | 7  | d | 12 | b | 17 | d | 22 | d |
| 3 | d | 8  | a | 13 | ь | 18 | С | 23 | a |
| 4 | c | 9  | d | 14 | b | 19 | a | 24 | a |
| 5 | a | 10 | d | 15 | a | 20 | d | 25 | c |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-628 012.

Kanchingur VAC Coordinator

HoD/CIVIL



## Main Road (NH-45B), Manik Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Department of CIVIL ENGINEERING

Academic Year 2019-2020 - Odd Semestek

Name of the Student: Hariharan. M

Year/Sem:

AU Register Number: 811216103003.

Value Added Course on "Estimation and current practices in civil engineering"

### MCO OTIESTIONS (25VA - 100 Morks)

| MCOOLESTIONS  | (ZSA4 – 100 Marks)   |
|---|--|
| 1. The process of calculating the quant   | ites and costs of the various items required in  |
| connection with the work is called _  |  |
| a) Estimate   | (b) Costing  |
| c) Quantity surveying   | (d) Estimating   |
| 2. For any construction work, the proce   | ess of calculating the quantities of various   |
| items of work is called   | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| a) Estimate   | (b) Costing Indra Ganesan College of Engineering   |
| c) Quantity surveying   | (d) Estimating VIG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012.  |
| 3. The process of determining the prob  | able cost of the project, after knowing the  |
| quantities of various items and their   | unit rate is called  |
| a) Estimate   | (b) Costing  |
| c) Quantity surveying   | <b>®</b> Estimating  |
| • 4. To make out an estimate for a work to Specification and  a) material b) item rate  | the following data are necessary-Drawing,  c) labour d) transportation   |
| 5. Sinking fund is  The fund for rebuilding a structure when its economic life is over  b) Raised to meet maintenance costs                         | <ul> <li>c) The total sum to be paid to the municipal authorities by the tenants</li> <li>d) A part of the money kept in reserve for providing additional structures and structural modifications</li> </ul> |
| <ul><li>6. Pre-tender stage requires</li><li>a) Acquisition of land</li><li>b) Selection of site</li><li>7. Select the correct statement.</li></ul> | c) Finalization of alignment of work  (1) All the above  |

| Academic Year 2019  | 2-2020 – Odd Semester  |
|---|--|
| 'a) A critical path always begins at the very first event                                     | c) Critical activities control the project                                     |
| b) A critical path always terminates at the last event  | Critical activity is the one for which free float is zero                      |
| <ul> <li>8. Free float for any activity is defined</li> </ul>                                 | as the difference between  |
| a) Its earliest finish time and earliest start time for its successor activity                | Its latest finish time and earliest start time for its successor activity      |
| b) Its latest start time and earliest start time  | d) Its earliest finish time and latest start time for its successor activity   |
| 9. In CPM analysis,   |  |
| <ul><li>a) Emphasis is given to activities</li><li>b) Uncertainties are not allowed</li></ul> | c) Activities are represented by arrows All the above                          |
| 10. The total estimated cost of building  | electrification usually accounts for   |
| a) 2%   | c) 1%  |
| b) 3%   | <b>(1)</b> 12%   |
| 11. The constraints in case of resource s   | smoothening operation would be   |
| a) Resources  | c) Both resources and project duration time                                    |
| (b) Project duration time   | d) None of the above   |
| 12. The time which results in the least p   | ossible construction cost of an activity, is                                   |
| a) Normal time  | © Crash time   |
| b) Slow time  | d) Standard time   |
| 13. Various activities of a project, are sh   | lown on bar charts by  |
| a) Vertical lines   | c) Dots  |
| (b) Horizontal lines  | d) Crosses   |
| 14. Total float for any activity is defined   | as the difference between  |
| a) Its latest finish time and earliest start time for its successor activity                  | e c) Its latest start time and earliest start time                             |
| (b) Its latest start time and earliest finish time  | d) Its earliest finish time and earliest start time for its successor activity |
| 15. One building has floor area 150 m <sup>2</sup> a  | nd the floor area rate is 6500 Rs. Calculate the                               |
| estimated cost of the building.   |  |
| (a) 786000 Rs.  | c) 486000 Rs.  |

1/2 "



#### Academic Year 2019-2020 - Odd Semester

| <ul><li>b) 756000 Rs</li></ul> | b) | 75 | 6000 | Rs |
|--------------------------------|----|----|------|----|
|--------------------------------|----|----|------|----|

d) All the above

- (a) Light construction
- b) Heavy construction

- c) Industrial construction
- d) Private construction

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

#### 17. Pick up the PERT event from the following:

- a) Digging of foundation started
- b) Digging of foundation completed
- c) Laying of concrete started.
- All the above

18. The process of incorporating changes and rescheduling or replanning is called

- a) Resource levelling
- b) Resource smoothening

- © Updating
  - d) Critical path scheduling

#### 19. Pick up the correct statement from the following:

- Programme Evaluation and Review Technique, is event oriented
- b) Programme Evaluation and Review Technique is not event oriented
- c) Critical Path Method is event oriented
- d) Critical Path Method is not event oriented

#### 20. Time and progress chart of a construction, is also known as

- a) Bar chart
- b) Gantt chart

- c) Modified Mile stone chart
- (d) All the above

#### 21. The technique for establishing and maintaining priorities among the various jobs of a project, is known as

- a) Event flow scheduling technique
- b) Critical ratio scheduling

- © Slotting technique for scheduling
- d) Short interval scheduling

#### 22. A CPM family includes

- a) CPA (Critical Path Analysis)
- b) CPP (Critical Path Plotted)

### 23. Critical path

- (a) Is always longest
- b) Is always shortest

- c) MCE (Minimum Cost Expenditure)
- (d) All the above
- c) May be longest
- d) May be shortest



#### Academic Year 2019-2020 - Odd Semester

| 24.   | is prepared | on the b | asis of plintl | n area | of building. |
|-------|-------------|----------|----------------|--------|--------------|
| h a 1 | <br>· . /   |          | `              |        |              |

(a) Cube rate estimate

c) maintenance estimate

b) supplementary estimate

d) rough estimate

### 25. The most suitable type of equipment for compaction of cohesive soils is

(a) Smooth-wheeled rollers

c) Sheep foot rollers

b) Vibratory rollers

d) Tampers

VAC Coordinator

HoD/CIVIL

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



adurai Main Road (NH-45B), Manikandam, Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

## **Department of CIVIL ENGINEERING**

Academic Year 2019-2020 - Odd Semester

Name of the Student: S. Akash

Year/Sem:

AU Register Number: 811 81710300&

Value Added Course on "Estimation and current practices in civil engineering"

### MCQ QUESTIONS (25X4 = 100 Marks)

| 1. The process of calculating the quant                               | ites and costs of the various items required in   |
|---|---|
| connection with the work is called _                                  |   |
| a) Estimate   | (b) Costing   |
| c) Quantity surveying   | (d) Estimating  |
| 2. For any construction work, the proce                               | ess of calculating the quantities of various  |
| items of work is called   | Dr. G. Balakrishnan, M.E., Ph.D.  |
| a) Estimate   | (b) Costing Principal   |
| c) Quantity surveying   | (d) Estimating Indra Ganesan College of Engineering IG Valley, Madurai Main Road                        |
| 3 The process of determining the prob                                 | Manikandam, Trichy-620 012.  able cost of the project, after knowing the                                |
| quantities of various items and their                                 | unit rate is called   |
| (a) Estimate  | (b) Costing   |
| c) Quantity surveying   | (d) Estimating  |
| 4. To make out an estimate for a work Specification and               | the following data are necessary-Drawing,   |
| a) material   | ©labour $\checkmark$  |
| b) item rate  | d) transportation   |
| 5 Sinking fund is   |   |
| a) The fund for rebuilding a structure when its economic life is over | c) The total sum to be paid to the municipal authorities by the tenants                                 |
| (b) Raised to meet maintenance costs                                  | d) A part of the money kept in reserve for providing additional structures and structural modifications |
| 6. Pre-tender stage requires  |   |
| a) Acquisition of land  | c) Finalization of alignment of work  |
| b) Selection of site  | (d) All the above   |
| 0, 20170110110110110  |   |
| 7 Select the correct statement.                                       |   |



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

## **Department of CIVIL ENGINEERING**

| Academic Year 2019-2  | 2020 – Odd Semester   |
|---|---|
| <ul><li>a) A critical path always begins at the very first event</li><li>b) A critical path always terminates at the last event</li></ul> | Critical activities control the project duration d) Critical activity is the one for which free float is zero |
| 8. Free float for any activity is defined a   | s the difference between  |
| a) Its earliest finish time and earliest start time for its successor activity  | c) Its latest finish time and earliest start time for its successor activity                                  |
| b) Its latest start time and earliest start time  | d) Its earliest finish time and latest start time for its successor activity                                  |
| 9. In CPM analysis,   |   |
| <ul><li>a) Emphasis is given to activities</li><li>b) Uncertainties are not allowed</li></ul>   | c) Activities are represented by arrows d) All the above  |
| 10. The total estimated cost of building el   | ectrification usually accounts for  |
| a) 2%   | c) 1%   |
| b) 3%   | <b>(1)</b> 12% /  |
| 11. The constraints in case of resource sm  | oothening operation would be  |
| a) Resources  | c) Both resources and project duration time   |
| (b) Project duration time   | d) None of the above  |
| 12. The time which results in the least pos   | ssible construction cost of an activity, is   |
| known as  | N. G. 1   |
| a) Normal time  | c) Crash time   |
| 6) Slow time  | d) Standard time  |
| 13. Various activities of a project, are shown  | wn on bar charts by   |
| a) Vertical lines   | c) Dots   |
| 6)Horizontal lines  | d) Crosses  |
| 14. Total float for any activity is defined a   | s the difference between  |
| a) Its latest finish time and earliest start time   | c) Its latest start time and earliest start time  |
| for its successor activity  | 1) To 1'- 4 (" ' 1 4' 1 - 1' 4 44')   |
| b) Its latest start time and earliest finish time   | d) Its earliest finish time and earliest start time for its successor activity                                |
| 15. One building has floor area 150 m² and  | d the floor area rate is 6500 Rs. Calculate the   |
| estimated cost of the building.   |   |
| (a) 786000 Rs.  | c) 486000 Rs.   |



Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

### **Department of CIVIL ENGINEERING**

#### Academic Year 2019-2020 - Odd Semester

| b) 7 | 756 | 000 | Rs. |
|------|-----|-----|-----|
|------|-----|-----|-----|

d) All the above

#### 16. Residential buildings are treated as

- (a) Light construction
- b) Heavy construction

- c) Industrial construction
- d) Private construction

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

17. Pick up the PERT event from the following:

- a) Digging of foundation started
- b) Digging of foundation completed
- c) Laying of concrete started
- (d) All the above

18. The process of incorporating changes and rescheduling or replanning is called

- a) Resource levelling
- b) Resource smoothening

- (c))Updating
  - d) Critical path scheduling

19. Pick up the correct statement from the following:

- (a) Programme Evaluation and Review Technique, is event oriented
- b) Programme Evaluation and Review Technique is not event oriented
- c) Critical Path Method is event oriented
- d) Critical Path Method is not event oriented

20. Time and progress chart of a construction, is also known as

- a) Bar chart
- b) Gantt chart

- c) Modified Mile stone chart
- (d) All the above

21. The technique for establishing and maintaining priorities among the various jobs of a project, is known as

- a) Event flow scheduling technique
- (b) Critical ratio scheduling

- c) Slotting technique for scheduling
- d) Short interval scheduling

22. A CPM family includes

- a) CPA (Critical Path Analysis)
- b) CPP (Critical Path Plotted)
- c) MCE (Minimum Cost Expenditure)
- d) All the above

23. Critical path

- (a) Is always longest
- b) Is always shortest

- c) May be longest
- d) May be shortest



#### Academic Year 2019-2020 - Odd Semester

24. \_\_\_\_\_\_ is prepared on the basis of plinth area of building.

(a) Cube rate estimate

- c) maintenance estimate
- b) supplementary estimate

d) rough estimate

25. The most suitable type of equipment for compaction of cohesive soils is

a) Smooth-wheeled rollers

Sheep foot rollers

b) Vibratory rollers

d) Tampers

Ramalianos VAC Coordinator



ladurai Main Road (NH-45B), Manikandam Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemai

## **Department of CIVIL ENGINEERING**

Academic Year 2019-2020 - Odd Semester

Name of the Student: J. Pradov

Year/Sem: 11

AU Register Number: 811218103004

Value Added Course on "Estimation and current practices in civil engineering"

| MCQ QUESTIONS (   | 25X4 = 100 Marks)   |
|---|---|
|   |   |
|   | es and costs of the various items required in   |
| connection with the work is called                                      | . Dr. G. Balakrish  |
| a) Estimate   | (b) Costing Indra Ganesar Principal   |
| c) Quantity surveying   | (b) Costing Indra Ganesan College of Engineering is of calculating the quantifies of Valley, Mad Vaintus Road  Trichy-620 012.  |
| 2. For any construction work, the proces                                | s of calculating the quantifies of various Road   |
| items of work is called   | Fichy-620 012.  |
| a) Estimate   | (b) Costing   |
| c) Quantity surveying   | (d) Estimating /  |
|   |   |
| 3. The process of determining the proba                                 | _   |
| quantities of various items and their u                                 | nit rate is called  |
| a) Estimate   | (b) Costing   |
| c) Quantity surveying   | (d) Estimating  |
| <ul> <li>4. To make out an estimate for a work th</li> </ul>            |   |
| Specification and   |   |
| a)material X  | c) labour   |
| b) item rate  | d) transportation   |
|   | -   |
| 5. Sinking fund is  |   |
| a) The fund for rebuilding a structure when its economic life is over   | c) The total sum to be paid to the municipal  |
| b) Raised to meet maintenance costs                                     | authorities by the tenants d) A part of the money kept in reserve for   |
| of realised to most maintenance costs                                   | providing additional structures and   |
|   | structural modifications  |
|   | . a   |
| 6. Pre-tender stage requires  |   |
|   | a) Figure 1 and 1 and 2 |
| <ul><li>a) Acquisition of land</li><li>b) Selection of site (</li></ul> | c) Finalization of alignment of work d) All the above   |
| (   |   |
|   |   |

7. Select the correct statement.



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

## **Department of CIVIL ENGINEERING**

#### Academic Year 2019-2020 - Odd Semester

| a) A critical path always begins at the very first event                                      | c) Critical activities control the project duration                            |
|---|--|
| b A critical path always terminates at the last event   | d) Critical activity is the one for which free float is zero                   |
| 8. Free float for any activity is defined a   | s the difference between   |
| (a) Its earliest finish time and earliest start time for its successor activity               | c) Its latest finish time and earliest start time for its successor activity   |
| b) Its latest start time and earliest start time  | d) Its earliest finish time and latest start time for its successor activity   |
| and the second of   |  |
| 9. In CPM analysis,   |  |
| <ul><li>a) Emphasis is given to activities</li><li>b) Uncertainties are not allowed</li></ul> | c) Activities are represented by arrows d) All the above                       |
| 10. The total estimated cost of building e  | lectrification usually accounts for  |
| a) 2%   | c) 1%  |
| b) 3%   | d) 12%   |
| 11. The constraints in case of resource sm  | noothening operation would be  |
| a) Resources  | c) Both resources and project duration time                                    |
| (b) Project duration time   | d) None of the above   |
| 12. The time which results in the least po  | ssible construction cost of an activity, is                                    |
| known as  | ~  |
| a) Normal time  | (c) Crash time   |
| b) Slow time  | d) Standard time   |
| 13. Various activities of a project, are sho  | wn on bar charts by  |
| a) Vertical lines   | c) Dots  |
| b)Horizontal lines  | d) Crosses   |
| 14. Total float for any activity is defined a   | s the difference between   |
| a) Its latest finish time and earliest start time   | c) Its latest start time and earliest start time                               |
| for its successor activity  | ,  |
| b) Its latest start time and earliest finish time   | d) Its earliest finish time and earliest start time for its successor activity |
| 15. One building has floor area 150 m² and  | d the floor area rate is 6500 Rs. Calculate the                                |
| estimated cost of the building.   |  |
| (a)786000 Rs.   | c) 486000 Rs.  |



#### Academic Year 2019-2020 - Odd Semester

| b) 756000 Rs.                            | d) All the above |
|--|------------------|
| 16. Bosidontial buildings are treated as |                  |

| 16. | Residential | buildings | are | treated | as |
|-----|-------------|-----------|-----|---------|----|
|     |             |           |     |         |    |

a) Light construction b) Heavy construction

- c) Industrial construction
- d) Private construction

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** Indra Ganesan College of Engineering

17. Pick up the PERT event from the following:

a) Digging of foundation started

b) Digging of foundation completed

IG Valley, Madurai Main Road c) Laying of concrete started Trichy-620 012.

d) All the above

18. The process of incorporating changes and rescheduling or replanning is called

- a) Resource levelling
- b) Resource smoothening

c) Updating d) Critical path scheduling

19. Pick up the correct statement from the following:

- a) Programme Evaluation and Review Technique, is event oriented
- b) Programme Evaluation and Review Technique is not event oriented
- (c) Critical Path Method is event oriented
- d) Critical Path Method is not event oriented

20. Time and progress chart of a construction, is also known as

- a) Bar chart
- b) Gantt chart

- c) Modified Mile stone chart-
- d) All the above

21. The technique for establishing and maintaining priorities among the various jobs of a project, is known as

- a) Event flow scheduling technique
- (b) Critical ratio scheduling

- c) Slotting technique for scheduling
- d) Short interval scheduling

22. A CPM family includes

- a) CPA (Critical Path Analysis)
- b) CPP (Critical Path Plotted)
- c) MCE (Minimum Cost Expenditure)
- (d) All the above

23. Critical path

- a) Is always longest
  - b) Is always shortest

- c) May be longest
- d) May be shortest



#### Academic Year 2019-2020 - Odd Semester

24. \_\_\_\_\_ is prepared on the basis of plinth area of building.

(a) Cube rate estimate

c) maintenance estimate

b) supplementary estimate

d) rough estimate

25. The most suitable type of equipment for compaction of cohesive soils is

a) Smooth-wheeled rollers

(b) Vibratory rollers

c) Sheep foot rollers

d) Tampers

VAC Coordinator

Name of the Student:

Year/Sem:

**AU Register Number:** 

#### Value Added Course on "PHP"

#### MCQ QUESTIONS (25X1 = 100 Marks)

| 1 | .PHP | is | an | acronym | for |  |
|---|------|----|----|---------|-----|--|
|   |      |    |    |         |     |  |

- a) Prefix Hypertext Preprocessor
- b) Prototype Hypertext Preprocessor
- c) Hypertext Preprocessor
- d) PHP: Hypertext Preprocessor

#### 2. Which is/are statement(s) true about PHP?

- a) It is an open-source scripting language
- b) PHP scripts execute on the server
- c) It is used for developing dynamic & interactive websites
- d) All of the above

#### 3. What is the extension of a PHP file?

- a) php
- b) bph
- c) cphpfile
- d) All of the above

#### 4. Who developed PHP?

- a) Guido van Rossum
- b) Rasmus Lerdorf
- c) Jesse James Garrett
- d) Douglas Crockford

#### 5. In which year PHP was developed?

- a) 1993
- b) 1994
- c) 1995
- d) 1996

#### 6. A PHP script starts with \_\_\_\_ and ends with \_\_\_\_.

- a) <?php and ?>
- b) <php> and </php>
- c) <?php and /?php>
- d) </php and >

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 7. PHP keywords are case-sensitive?  |
|--|
|  |
| a) Yes   |
| b) No  |
| 8. Single line comments can be placed in PHP script by using which symbol? |
| a) //  |
| b) #   |
| c) \$  |
| d) Both A. and B.  |
| 9. Multi-line comments can be written within the                           |
| a) // and //   |
| b) ## and ##   |
| c) /* and */   |
| d) /// and ///   |
| THE MALAGE !!!   |
| 10. PHP statements end with a  |
| iv. i ili statements enu with a  |

- a) semicolon (;)
- b) (colon (:)
- c) dot (.)
- d) comma (,)

#### 11. Which sign is used to declare variables in PHP?

- a) @
- b) &
- c) \$
- d) \_

#### 12. Which is not a valid variable name in PHP?

- a) Age
- b) \_age
- c) PersonAge
- d) lage

#### 13. Are variable names case-sensitive?

- a) Yes
- b) No

#### 14. Which statement is commonly used for PHP output?

- a) write
- b) php.write
- c) log
- d) echo

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 15. I | How | many | variable | scopes | are | there | in | <b>PHP</b> | ? |
|-------|-----|------|----------|--------|-----|-------|----|------------|---|
|-------|-----|------|----------|--------|-----|-------|----|------------|---|

- a) 1
- b) 2
- c) 3
- d) 4

#### 16. Which is not a valid variable scope in PHP?

- a) local
- b) global
- c) static
- d) external

#### 17. A variable declared outside a function has a \_\_\_\_\_.

- a) local scope
- b) global scope

#### 18. What will be the output of the following PHP code?

```
<?php
$x = 5;
function myFunction()
{
echo "Result $x";
}
myFunction();
?>
```

- a) Result \$x
- b) Result 5
- c) Result
- d) None of the above

#### 19. What will be the output of the following PHP code?

```
<?php
function myFunction()
{
$x = 5;
echo "Result1: $x , ";
}
myFunction();
echo "Result2: $x";
?>
```

- a) Result1: 5, Result2:
- b) Result1: 5, Result2: 0
- c) Result1: 5, Result2: 5
- d) None of the above

B ...

- 20. Which PHP keyword is used to access a global variable inside the function?
  - a) php global
  - b) global
  - c) global variable
  - d) globalscope
- 21. There are two variables a, b which declared in global scope, which is the correct PHP statement to access them within a function?
  - a) global \$a, \$b;
  - b) global \$a \$b;
  - c) global (\$a, \$b);
  - d) php global \$a, \$b;
- 22. What is the name of an array that stores all global variables in PHP?
  - a) \$GLOBAL[]
  - b) \$global[]
  - c) \$GLOBALS[]
  - d) \$PHP GLOBALS[]
- 23. In the syntax of \$GLOBALS[index], what does "index" hold?
  - a) Index (starting from 0) of the variable
  - b) Index (starting from 1) of the variable
  - c) Name of the variable
  - d) Line number of the variable where the variable was declared
- 24. What will be the output of the following PHP code?

<?php
function Increment(){
static \$num = 0;
echo "\$num";
\$num++;
}
Increment();
Increment();
Increment();
?>

a) 000

b) 111

c) 011

d) 012

33:

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

- 25. What is the correct syntax of echo statement in PHP?
  - a) echo
  - b) echo()
  - c) echo = ()
  - d) Both A. and B.



## Value Added Course

#### **PHP**

#### **ANSWER KEY**

| 1 | D | 6  | В | 11 | C | 16 | D | 21 | A |
|---|---|----|---|----|---|----|---|----|---|
| 2 | D | 7  | В | 12 | D | 17 | В | 22 | С |
| 3 | A | 8  | D | 13 | Α | 18 | C | 23 | C |
| 4 | В | 9  | C | 14 | D | 19 | A | 24 | D |
| 5 | В | 10 | Α | 15 | C | 20 | В | 25 | D |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. C. Mile

**VAC Coordinator** 

Name of the Student: N94740 . P

Year/Sem: 11 | 111

AU Register Number: 811218104019

#### Value Added Course on "PHP"

#### MCQ QUESTIONS (25X1 = 100 Marks)

84

| A.PHP | is an acronym for                |
|-------|----------------------------------|
| a)    | Prefix Hypertext Preprocessor    |
| b)    | Prototype Hypertext Preprocessor |
| c)    | Hypertext Preprocessor           |

d) PHP: Hypertext Preprocessor

#### 2 Which is/are statement(s) true about PHP?

- a) It is an open-source scripting language
- b) PHP scripts execute on the server
- c) It is used for developing dynamic & interactive websites
- All of the above

#### 3. What is the extension of a PHP file?

- a) php
- b) bph
- c) cphpfile
- d) All of the above

#### 4. Who developed PHP?

- a) Guido van Rossum
- b) Rasmus Lerdorf
- c) Jesse James Garrett
- d) Douglas Crockford

#### 5. In which year PHP was developed?

- a) 1993
- b) 1994
- 1995 كون
  - d) 1996

#### 6. A PHP script starts with \_\_\_\_ and ends with \_\_\_.

- a) <?php and ?>
- (b)) <php> and </php>
- c) <?php and /?php>
- d) </php and />

Dr. G. Balakrishnan, M.E., Ph.D., Principal



|  | o Atma University, Chennal  |
|--|---|
| a) Yes b) No   |   |
| Single line comments can be placed in PHP script by  a) // b) #  e) \$ d) Both A. and B.               | using which symbol?   |
| 9 Multi-line comments can be written within the  a) // and // b) ## and ## c) /* and */ d) /// and /// |   |
| b) (colon (:) c) dot (.) d) comma (,)  |   |
| 11. Which sign is used to declare variables in PHP?  a) @ b) & c) \$ d)                                |   |
| a) Age b) _age c) PersonAge d) lage  |   |
| 13. Are variable names case-sensitive?  a) Yes  No   | (D.   |
| 14 Which statement is commonly used for PHP output?  a) write b) php.write c) log d) echo              | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |

| 15. How many variable scopes are there in PHP?      |   |
|---|---|
| a) 1  |   |
| b) 2  |   |
| Jer B   |   |
| d) 4  |   |
|   |   |
| 16. Which is not a valid variable scope in PHP?     |   |
| a) local  |   |
| b) global   |   |
| c) static   |   |
| d) external   |   |
| 17/1  |   |
| 17. A variable declared outside a function has a    | *************************************** |
| a) local scope                                      |   |
| b) gRobal scope                                     |   |
| 19 What will be the sutmet of the falls             | 7.0                                     |
| 18. What will be the output of the following PHP    | code?                                   |
| x = 5;  |   |
| function myFunction()                               |   |
| {   |   |
| echo "Result \$x";                                  |   |
| <pre>myFunction();</pre>                            |   |
| ?>  |   |
| a) Result \$x                                       |   |
| b) Result 5   |   |
| c) Result   |   |
| d) None of the above                                |   |
| <i>b</i>  |   |
| 19. What will be the output of the following PHP co | de?                                     |
| <pre>{ <?php function myFunction()</pre></pre>      |   |
| {   |   |
| \$x = 5;  |   |
| echo "Result1: \$x , ";                             |   |
| }   |   |
| myFunction();                                       |   |
| echo "Result2: \$x"; ?>                             | C. C.                                   |
| a) Result1: 5, Result2:                             | Dr. G. Balakrishnan, M.E., Ph.D.,       |
| b) Result1: 5, Result2: 0                           | Principal                               |
| c) Result1: 5, Result2: 5                           | Indra Ganesan College of Engineering    |
| d) None of the above                                | valley, Madurai Main Road               |
| ,   | Manikandam, Trichy-620 012.             |

|                                 |  | Madural Main Road<br>Approved by AICTE,                | (NH-455), Manikanda<br>YewDaini & Affiliated to                    | m,Tiruchirapatil- 620 C<br>Anna University, Chen | nal  |
|---------------------------------|--|--|--|--|------|
| ∕ a)<br>'b)<br>c)               | hich PHP ke<br>php_ global<br>global<br>global_varia<br>globalscope  |  | access a global vari   | able inside the func                             | tion |
| <b>corre</b><br>(a)<br>b)<br>c) | here are two<br>ect PHP states<br>global \$a, \$b<br>global \$a \$b<br>global (\$a, \$<br>php_global \$  | ment to access the<br>;<br>;<br>;<br>;b);              | ch declared in glob<br>m within a function                         | al scope, which is t                             | he   |
| (a)<br>(b)                      | fat is the na<br>\$GLOBAL[]<br>\$global[]<br>\$GLOBALS<br>\$PHP_GLO  | ]  | at stores all global   | variables in PHP?                                |      |
| (a)<br>(b)                      | Index (starti  | ng from 0) of the v<br>ng from 1) of the v<br>variable | lex], what does "in<br>ariable<br>ariable<br>here the variable was |  |      |
| 24. N                           | <pre>vhat will be the    <?php    function Increstatic \$num =    echo "\$num";    \$num++;    }    Increment();    Increment();    Increment();    ?></pre> | ement(){ 0;  | ollowing PHP code  |  |      |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

25. What is the correct syntax of echo statement in PHP?

a) echo

a) 000b) 111c) 011

- b) echo()
- c) echo = ()
- (d) Both A. and B.

Name of the Student: JICKSON, S

Year/Sem: 111 V

AU Register Number: Q1191-1104

| 011211104004  |    |
|---|----|
| Value Added Course on "PHP"   | 20 |
| MCQ QUESTIONS (25X1 = 100 Marks)  | 00 |
| a) Prefix Hypertext Preprocessor b) Prototype Hypertext Preprocessor c) Hypertext Preprocessor d) PHP: Hypertext Preprocessor   |    |
| Which is/are statement(s) true about PHP?  (a) It is an open-source scripting language  (b) PHP scripts execute on the server  (c) It is used for developing dynamic & interactive websites |    |

- 3. What is the extension of a PHP file?
  - (a) php
  - b) bph
  - c) cphpfile
  - d) All of the above

d) All of the above

- 4. Who developed PHP?
  - a) Guido van Rossum
  - b) Rasmus Lerdorf
  - c) Jesse James Garrett
  - d) Douglas Crockford
- 5. In which year PHP was developed?
  - a) 1993
  - b) 1994
  - c) 1995
  - d) 1996
- 6. A PHP script starts with \_\_\_ and ends with \_\_\_. a) <?php and ?>

  - b) hpp> and </php>
  - c) <?php and /?php>
  - d) </php and />

| The state of the s |   |
|--|---|
| 7. PHP keywords are case-sensitive?  |   |
| a) Yes   |   |
| b) No  |   |
|  |   |
| 8. Single line comments can be placed in PHP script by using which symbol?   |   |
| a) //  |   |
| b) #   |   |
| c) \$  |   |
| Both A. and B.   |   |
| 9. Multi-line comments can be written within the   |   |
| a) // and //   |   |
| b) ##h and ##  |   |
| o) /* and */   |   |
| d) /// and ///   |   |
|  |   |
| 10 PHP statements end with a   |   |
| (x) semicolon (;)  |   |
| b) (colon (:)  |   |
| c) dot (.)   |   |
| d) comma (,)   |   |
|  |   |
| 11. Which sign is used to declare variables in PHP?  |   |
| a) @   |   |
| 5) &   |   |
| c) \$  |   |
| d) _   |   |
| 12. Which is not a valid variable name in PHP?   |   |
| a) Age   |   |
| b) _age  |   |
| c) PersonAge   |   |
| d) lage  |   |
|  |   |
| 3. Are variable names case-sensitive?  |   |
| n Van  | _ |

14. Which statement is commonly used for PHP output?

a) write

- b) php.write
- c) log
- d) echo

|  | Makinton and American |
|--|-----------------------|
| 15. How many variable scopes are there in PHP?  a) 1  b) 2  c) 3  d) 4  16. Which is not a valid variable scope in PHP?  a) local  b) global |                       |
| c) static d) external  |                       |
| 17. A variable declared outside a function has a  a) local scope b) global scope   |                       |
| 18 What will be the output of the following PHP code? <pre> <pre></pre></pre>  |                       |
| a) Result \$x b) Result 5 Result d) None of the above  |                       |
| 19. What will be the output of the following PHP code? php function myFunction() {     \$x = 5;     echo "Result1: \$x , "; }</th <th></th>  |                       |
| <pre>myFunction(); echo "Result2: \$x";</pre>  | 0                     |
| Result1: 5, Result2:   | Dr. G. Bala           |

b) Result1: 5, Result2: 0

c) Result1: 5, Result2: 5

d) None of the above

|                      | Approved by Arciz, New Jenin & Affinates to Anna University, Chennal |  |  |  |  |
|----------------------|--|--|--|--|--|
| 20. Which PHP ke     | yword is used to access a global variable inside the function?       |  |  |  |  |
| a) php global        |  |  |  |  |  |
| b) global            |  |  |  |  |  |
| c) global varial     | ble  |  |  |  |  |
| d) globalscope       |  |  |  |  |  |
|                      | variables a, b which declared in global scope, which is the          |  |  |  |  |
|                      | nent to access them within a function?                               |  |  |  |  |
| 🔪 a) global \$a, \$b | )<br>}   |  |  |  |  |
| hy blobal \$a \$h.   |  |  |  |  |  |

- 22. What is the name of an array that stores all global variables in PHP?
  - a) \$GLOBAL[]

c) global (\$a, \$b);d) php global \$a, \$b;

- b) \$global[]
- (e) SGLOBALS[]
  - d) \$PHP\_GLOBALS[]
- 23. In the syntax of \$GLOBALS[index], what does "index" hold?
  - a) Index (starting from 0) of the variable
  - b) Index (starting from 1) of the variable
  - Name of the variable
    - d) Line number of the variable where the variable was declared
- 24. What will be the output of the following PHP code?

</pnp
function Increment(){
static \$num = 0;
echo "\$num";
\$num++;
}
Increment();
Increment();
Increment();
?>

- a) 000
- b) 111
- c) 011
- d17012
- 25. What is the correct syntax of echo statement in PHP?
  - a) echo
  - b) echo()
  - c) echo = ()
  - di Roth A. and B.

Name of the Student:

Year/Sem:

AU Register Number:

|   | 7                                 | Value Added                       | Course                                   |                                       |
|---|-----------------------------------|-----------------------------------|--|---------------------------------------|
|   | "Aut                              | omation and                       | I Robotics"                              |                                       |
| M   | ULTIPLE CE                        | IOICE QUEST                       | IONS (25X1 = 25 Marl                     | <u>(8)</u>                            |
|   |                                   |                                   |  |                                       |
| 1. A place where po                                   | wer, informat                     | ion, or a result                  | leaves a system                          |                                       |
| 1. Chassis  | 2. Output                         | 3. Sensor                         | 4. Troubleshooting                       |                                       |
| 2. Which of the follow Involving gases?               | ing describes                     | the a use of tecl                 | hnology or machinery,                    | specifically                          |
| 1. Pneumatics   | 2. Hy                             | draulics                          | 3. Actuation                             | 4. Carbonation                        |
| 3. The position or alig<br>Directions.                | nment relativ                     | e to points of th                 | e compass or other spe                   | cific                                 |
| 1. Loops 4. A mechanism havin Spontaneously           |                                   |                                   | 4. Orientation ed that it appears to m   | ove                                   |
| 1. Automatic  | 2. Clo                            | ock Jack                          | 3. Robot                                 | 4. Automata                           |
| 5. The the branch of to<br>Known as?                  | echnology that                    | t deals with dim                  | ensions of microscopic                   | proportion, is                        |
|   |                                   | notechnology                      | 3. Microtechnology                       | 4.                                    |
| 6. Which of the follow                                | ~                                 | -                                 |  |                                       |
| <ol> <li>They can ass</li> <li>They can be</li> </ol> | ist humans with<br>used in danger | h disabilities<br>ous environment | 2. They can re<br>4. They don't<br>break | eplace jobs<br>get tired or require a |
| 7. The Hummingbird                                    | re                                | quire extra pov                   | ver to be able to work.                  |                                       |
| 1. Sensors  | 2. LEDs                           | 3. Motors                         | 4. Tri-Color LEDs                        |                                       |
| 8. The branch of techn<br>Application of robot        | -W-4                              | ds with the desi                  | gn, construction, opera                  | tion, and                             |
| 1. Levers   | 2. Robotics                       | 3. Creative po                    | wer 4. Science CS                        | F                                     |
|   |                                   | 0 ./                              |  |                                       |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

| 9. WI          | ien working in   | a group i                                  | for robotics, stu   | ident's should   |                         |
|----------------|--|--|---|--|-------------------------|
|                | 3. Socialize   | with group<br>with other:                  | members outsid  | er group members<br>le of your group and th<br>and don't help your gro<br>up members appropria |                         |
| 10. A          |  |  |   |  | imals but also robots.  |
|                | 1. Exoskeleto  |  |   | 3. Endoskeleton  | 4. Hardware             |
| 11. The<br>194 | e 3rd law of ro<br>12.   | botics Spi                                 | irit Isaac Asimo  | ov first announced the   | e 3 laws of robotics in |
|                | <ul><li>2. A robot can</li><li>3. A robot must conflict with</li></ul> | 't go to sch<br>st obey ord<br>h the First | ool<br>ers given it by h  |  | allow a human being to  |
|                | with the Firs  | st or Secon                                | d Law   | as rong as such protec   | tion does not conflict  |
| 12. How        | many system  | s does a ro                                | bot have?   |  |                         |
|                | 1.2  | 2.6  | 3.4   | 4. 3   |                         |
| 13. Engi       | nes and joints   | belong to                                  | what system?  |  |                         |
|                | . Digestive sys<br>ystem   | tem 2.                                     | Sensory system  | 3. Electric syste  | m 4. Mechanic           |
| 14. How        | many types of  | robots ar                                  | e there?  |  |                         |
| 1              | . 7  | 2. 10                                      | 3. 6  | 4. 8   |                         |
| 15. What       | are the comp   | onents of t                                | he electric syste   | em?  |                         |
| 1.<br>3.       | Electric joints<br>Engines and jo                                      | and cables<br>oints                        |   | Batteries and electric v<br>Thunder and lightning  | viring                  |
| 16. How n      | nany compone   | nts does t                                 | he control syste  | m have?  |                         |
| 1.             | 4 2  | . 1  | 3.2   | 4. 5   |                         |
| 17. The pr     | ocessor belong   | gs to the_                                 | Mornings had gong population - Pages and planty and a debat depends on the page | No. of Contract of   |                         |
| 1. :           | Sensory system   | 2. M                                       | lechanic system   | 3. Electric system   | 4. Control system       |
| 18. One of     | these is NOT   | a type of r                                | obot  |  |                         |
| 1.1            | Medical  | 2. In                                      | dustrial  | 3. Household   | 4. Apologetic           |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

|  | robot base used in the<br>t not all of the tasks in   |  |  |                                      |
|--|---|--|--|--------------------------------------|
| <ol> <li>Light senso</li> <li>Robot</li> </ol>   | 2. Lego M<br>4. Robot E   | find storms Educat<br>Educator Model (R  |  |                                      |
| 20. A block is the bas<br>Blocks perform t   | sic unit of programn<br>heir operations in o  | ning in the NXT proder along the Sec   | orogramming S<br>Juence Beam   | oftware.                             |
| 1. Touch Sens  | or 2. Block (p  | programming)   | 3. Ports   | 4. Behaviors                         |
| 21. The primary sour   | ce of physical motio  | on in the Mind sto   | rms NXT syste  | m.                                   |
| 1. Interactive S   | Servo Motor 2.  | Behaviors 3. Li  | ght Sensor   | 4. Touch Sensor                      |
| 22. A machine that is three central caps   | abilities: the ability  | n and respond to i<br>to Sense, the abili  | ts environment<br>ty to Plan, and  | t characterized by<br>the ability to |
|  |   |  |  |                                      |
| 1. Code  | 2. Taskbot  | 3. Robots  | 4. Po  | orts                                 |
| 1. Code  23. The three charact   |   |  |  |                                      |
|  |   | nat define a robot   | and the state of t |                                      |
| 23. The three charact  | eristic capabilities tl<br>2. Sensor  | nat define a robot   | nse-Plan-Act   | 4. NXT Brick                         |
| 23. The three characters of the characters of th | eristic capabilities tl<br>2. Sensor  | 3. Sen<br>, student's should<br>h work alone<br>your group<br>th group members   | nse-Plan-Act   | 4. NXT Brick                         |
| 23. The three characters  1. Comment  24. When working in an   | 2. Sensor  a group for robotics  tead of work and there and don't work with yeard don't socialize wie and work with group | 3. Sen<br>3. Sen<br>4. student's should<br>4. work alone<br>4. your group<br>6. th group members<br>6. members appropri<br>6. up of commands | nse-Plan-Act ately in a program. I   | 4. NXT Brick                         |



#### Value Added Course

#### "Automation and Robotics"

#### ANSWER KEY

| 1 | 2 | 6  | 2 | 11 | 3 | 16 | 2 | 21 | 1 |
|---|---|----|---|----|---|----|---|----|---|
| 2 | 1 | 7  | 3 | 12 | 3 | 17 | 4 | 22 | 3 |
| 3 | 4 | 8  | 2 | 13 | 3 | 18 | 4 | 23 | 3 |
| 4 | 4 | 9  | 4 | 14 | 4 | 19 | 4 | 24 | 4 |
| 5 | 2 | 10 | 3 | 15 | 2 | 20 | 2 | 25 | 2 |

**VAC Coordinator** 

Name of the Student: B. Kiruthika

Year/Sem: IV / VII

7.

8.

AU Register Number: 811216105010

### Value Added Course

#### "Automation and Robotics"

| 2 Automation an   | in Kodoffes                               |
|---|---|
| MULTIPLE CHOICE QUEST   | FIONS (25X1 = 25 Marks)                   |
| 1. A place where power, information, or a resu  | lt leaves a system                        |
| 1. Chassis 2. Output 3. Sensor  | 4. Troubleshooting                        |
| 2. Which of the following describes the a use of tec<br>Involving gases?                      | hnology or machinery, specifically        |
| Pneumatics 2. Hydraulics  | 3. Actuation 4. Carbonation               |
| 3. The position or alignment relative to points of th Directions.                             | e compass or other specific               |
| 1. Loops 2. Sensor 3) Chassis 4. A mechanism having its motive power so conceal Spontaneously | 4. Orientation ed that it appears to move |
| 1. Automatic 2. Clock Jack  | 3. Robot 4-Automata                       |
| 5. The the branch of technology that deals with dime Known as?                                | ensions of microscopic proportion, is     |
| Nannytechnology     Micromachinery  | 3. Microtechnology 4.                     |
| 6. Which of the following is not an advantage of Rob  | ots?                                      |
| 1) They can assist humans with disabilities 3. They can be used in dangerous environment      |   |
| 7. The Hummingbird require extra power  | break<br>er to be able to work.           |
| 1. Sensors 2. LEDs 3. Motors  | 4. Tri-Color LEDs                         |
| 3. The branch of technology that deals with the design Application of robots                  | a, construction, operation, and           |
| 1. Levers 2. Robotics 3. Creative power   | er 4. Science CSF                         |

|   | Madurai<br>Approved b  | Main Road<br>y AICTE, NewDo                            | (NH-45B),Man<br>olhi & Affiliated to   | Ikandam,Trichy-12.<br>Anna University, Chennai                      |
|---|--|--|--|---|
| 9. When working                                       | in a group for   | robotics, studen                                       | nt's should  |   |
| 2. Socializ   | e with group note with other gr                              | oup members and  | roup members<br>f your group and then<br>I don't help your grou<br>members appropriate | p   |
| 10. A rigid extern                                    | al covering fo   | r the body in son                                      | ne invertebrate anin   | nals but also robots.   |
| 1. Exoskel  | eton 2   | 2. Armor J.  | Andoskeleton   | 4. Hardware   |
| 11. The 3rd law o<br>1942.                            | f robotics Spir  | it Isaac Asimov  | first announced the  | 3 laws of robotics in   |
| come to  2. A robot  3. A robot  conflict  4. A robot | harm<br>can't go to sch<br>must obey ord<br>t with the First | ool<br>ers given it by hun<br>law<br>s own existence a | man beings except w  | llow a human being to here such orders would tion does not conflict |
| 12. How many sys                                      | stems does a r   | obot have?   |  |   |
| 1.2   | 2.6  | -34  | 4. 3   |   |
| 13. Engines and j                                     | oints belong to  | what system?   |  |   |
| 1. Digestiv<br>system                                 | e system 2   | 2. Sensory system                                      | 3. Electric syst   | em 4 Mechanic   |
| 14. How many ty                                       | pes of robots a  | re there?  |  |   |
| 1.7   | 2. 10  | 3.6  | -408   | Dr. G. Balakrishnan, M.E., Ph.I. Principal                          |
| 15. What are the                                      | components of  | the electric system                                    | em?  | Indra Ganesan College of Engineer                                   |
| 1. Electric<br>3. Engines                             | joints and cabl<br>and joints                                | es (2)   | Batteries and electric<br>Thunder and lightnir   | IG Valley, Madurai Main Road<br>wiringanikandam, Trichy-620 012.    |
| 16. How many co                                       | mponents does  | s the control syste                                    | em have?   |   |
| 1.4   | 2  | 3. 2   | 4. 5   |   |
| 17. The processor                                     | belongs to the   | 3  |  |   |
| 1. Sensory  | system '2  | . Mechanic system                                      | m 3. Electric syste  | em 4. Control system  |
| 18. One of these is                                   | NOT a type o   | of robot   | and the small conference on the second state of  |   |
| 1 Medical   | 2  | Industrial   | 3 Household  | 4 Apologetic  |



| 19. The small mobile robot perform some but not a   | base used in the                  | e Robot Educate<br>the Robotics E  | or. This robot is ablingineering activities | e to         |  |
|---|-----------------------------------|------------------------------------|---|--------------|--|
| 1. Light sensor 2. Lego Mind storms Education Software 3. Robot Educator Model (REM)  |                                   |                                    |   |              |  |
| 20. A block is the basic un<br>Blocks perform their o   | it of programm<br>perations in or | ning in the NXT<br>der along the S | programming So                              | ftware.      |  |
| 1. Touch Sensor   | 2)Block (p                        | rogramming)                        | 3. Ports                                    | 4. Behaviors |  |
| 21. The primary source of   | physical motion                   | n in the Mind s                    | torms NXT systen                            | 1.           |  |
| 1. Interactive Servo  | ligens.                           |                                    | Light Sensor                                |              |  |
| 22. A machine that is able three central capabiliti   | n interact with                   | and manner de                      |   |              |  |
| 1. Code   | skbot                             | 3. Robots                          | 4. Port                                     | s            |  |
| 23. The three characteristic capabilities that define a robot   |                                   |                                    |   |              |  |
| 1. Comment  | 2. Sensor                         | $\mathfrak{S}$ s                   | ense-Plan-Act                               | 4. NXT Brick |  |
| 24. When working in a grou  | p for robotics, s                 | student's should                   | d   |              |  |
| <ol> <li>Socialize instead of work and then work alone</li> <li>Stay on task and don't work with your group</li> <li>Work alone and don't socialize with group members</li> <li>Stay on task and work with group members appropriately</li> </ol> |                                   |                                    |   |              |  |
| 25. General term for any con<br>NXTProgramming Softw  | mand or grow                      | of commanda                        |   | the          |  |
| 1. Comment  | 2. Jode                           |                                    | 4. Robot                                    |              |  |
|   | (0)                               | ./                                 |   |              |  |

Name of the Student: Crayathri. L

Year/Sem: III / V

AU Register Number: 811217105011

8.

### Value Added Course

| "Automation a  | nd Robotics"                            | 105                                |
|--|---|------------------------------------|
| MULTIPLE CHOICE QUES   | STIONS (25X1 = 25 Mar                   | ks)                                |
|  |   |                                    |
| 1. A place where power, information, or a res  | ult leaves a system                     |                                    |
| 1. Chassis 2. Output 3. Sensor   | 4. Troubleshooting                      |                                    |
| 2. Which of the following describes the a use of te Involving gases?                           | chnology or machinery,                  | specifically                       |
| 1) Pneumatics 2. Hydraulics  | 3. Actuation                            | 4. Carbonation                     |
| 3. The position or alignment relative to points of the Directions.                             | he compass or other spec                | cific                              |
| 1. Loops 2. Sensor 3. Chassis 4. A mechanism having its motive power so concease Spontaneously | 4)Orientation led that it appears to mo | ove                                |
| 1. Automatic 2. Clock Jack   | (F.)Robot                               | 4. Automata                        |
| 5. The the branch of technology that deals with din Known as?                                  | nensions of microscopic l               | proportion, is                     |
|  | 3. Microtechnology                      |                                    |
| 6. Which of the following is not an advantage of Rol   | bots?                                   |                                    |
| They can assist humans with disabilities     They can be used in dangerous environment         | 1 1                                     | lace jobs<br>et tired or require a |
| 7. The Hummingbird require extra pow   | er to be able to work.                  |                                    |
| 1. Sensors 2. LEDs 3 Motors  | 4. Tri-Color LEDs                       |                                    |
| 8. The branch of technology that deals with the desig Application of robots                    | n, construction, operatio               | on, and                            |
| 1. Levers 2. Robotics 3. Creative pow  | ver 4. Science CSF                      |                                    |
|  | 10 ./                                   |                                    |

Dr. G. Balakrishnan, M.E., Ph.D., Principal

| Appro   | ved by AICTE, NewDe  | ihi & Affiliated to An   | na University, Chennai   |
|---|--|--|--|
| 9. When working in a gro  | up for robotics, studen  | t's should   |  |
| <ol> <li>Socialize with gr</li> <li>Socialize with ot</li> </ol>          | don't work with other gr<br>oup members outside of<br>her group members and<br>work with other group r | your group and then we don't help your group                             | ork alone  |
| 10. A rigid external coveri   | ng for the body in som   | e invertebrate animals   | but also robots.   |
| 1. Exoskeleton  | 2. Armor   | Endoskeleton 4.  | Hardware   |
| 11. The 3rd law of robotic 1942.  | s Spirit Isaac Asimov f  | irst announced the 3 la  | iws of robotics in   |
| come to harm 2. A robot can't go to 3. A robot must obe conflict with the | to school by orders given it by hun First law tect its own existence as                                | through inaction, allown an beings except where slong as such protection | e such orders would  |
| 12. How many systems do   | es a robot have?   |  |  |
| 1.2 2.6   | (3) <del>+</del>   | 4, 3   |  |
| 13. Engines and joints belo   | ong to what system?  |  |  |
| 1. Digestive system system  | 2. Sensory system  | (3) Flectric system  | 4. Mechanic  |
| 14. How many types of rol   | oots are there?  |  |  |
| 1. 7 2. 1   | 0 3.6  |  | Dr. G. Balakrishnan, M.E., Ph.D. Principal                       |
| 15. What are the compone  | nts of the electric syste  | em?  | Indra Ganesan College of Engineering                             |
| 1. Electric joints an Engines and joint                                   | d cables 2. 1  | Batteries and electric wi<br>Thunder and lightning                       | IG Valley, Madurai Main Road<br>ring Manikandam, Trichy-620 012. |
| 16. How many component  | s does the control syste   | em have?   |  |
| 1.4 (2)   | 3.2  | 4. 5   |  |
| 17. The processor belongs   | to the   |  |  |
| 1. Sensory system   | 2. Mechanic system   | 3. Electric system   | (4) Control system   |
| 18. One of these is NOT a   | type of robot  |  |  |
| i. Medical  | 2. Industrial  | 3. Household   | Apologetic   |



# Indra Ganesan

COLLEGE OF ENGINEERING Medural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDeint & Affiliated to Anna University, Chennel

| 19. The small mobile rob perform some but no   | ot base used in t<br>t all of the tasks | he Robot Education the Robotics   | ator. This robot is at<br>Engineering activit | ole to<br>ies      |  |
|--|---|-----------------------------------|---|--------------------|--|
| <ol> <li>Light sensor</li> <li>Robot</li> </ol>  | 2. Lego I                               | Mind storms Ed<br>Educator Mode   | ucation Software<br>el (REM)                  |                    |  |
| 20. A block is the basic u<br>Blocks perform their   | init of program<br>operations in o      | ming in the NZ<br>order along the | KT programming S<br>Sequence Beam_            | Software.          |  |
| 1. Touch Sensor  | 2. Block                                | (programming)                     | (3) Ports                                     | 4. Behaviors       |  |
| 21. The primary source of  | of physical moti                        | on in the Mino                    | l storms NXT syste                            | em.                |  |
| 1. Interactive Serv  | o Motor                                 | Behaviors 3                       | 3. Light Sensor                               | 4. Touch Sensor    |  |
| 22. A machine that is able<br>three central capabil<br>Act   | e to interact wi                        | th and respond                    | to its environmen                             | t characterized by |  |
| 1. Code 2.   | Taskbot                                 | (3) Robots                        | 4. Pc   | orts               |  |
| 23. The three characterist   | tic capabilities 1                      | hat define a ro                   | bot   |                    |  |
| 1. Comment   | 2. Sensor                               | 3                                 | Sense-Plan-Act                                | 4. NXT Brick       |  |
| 24. When working in a gr   | oup for robotic                         | s, student's sho                  | ould  |                    |  |
| 1. Socialize instead of work and then work alone 2. Stay on task and don't work with your group 3. Work alone and don't socialize with group members 4. Stay on task and work with group members appropriately  25. General term for any command or group of commands in a program. In the NXTProgramming Software, this is one or more blocks |   |                                   |   |                    |  |
| 1. Comment   | 2.)Code                                 | 3. Ports                          | 4. Robot                                      |                    |  |
|  |   |                                   |   |                    |  |



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B).Manikandam,Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Name of the Student: N. Marrikandem

Year/Sem: III

AU Register Number: 8112-18105005

#### Value Added Course

"Automation and Robotics"

| MULTIPLE CHOICE QUES   | ΓΙΟΝS (25X1 = 25 M    | larks   |
|--|-----------------------|---|
| <ol> <li>A place where power, information, or a result.</li> <li>Chassis 2 Output 3. Sensor</li> </ol>               |                       | g   |
| 2. Which of the following describes the a use of tec<br>Involving gases?   | chnology or machine   | ry, specifically                              |
| 1. Pneumatics 2. Hydraulics  | (3) Actuation         | 4. Carbonation                                |
| 3. The position or alignment relative to points of the Directions.  1. Loops 2. Sensor 3. Chassis                    | he compass or other:  | specific                                      |
| Loops 2. Sensor 3. Chassis     A mechanism having its motive power so concer     Spontaneously                       |                       | ) move  |
| 1. Automatic 2. Clock Jack   | 3. Robot              | 4.) Automata                                  |
| 5. The the branch of technology that deals with die Known as?  1. Nannytechnology (2. Nanotechnology Micromachinery) |                       |   |
| 6. Which of the following is not an advantage of Re  | obots?                |   |
| <ol> <li>They can assist humans with disabilities</li> <li>They can be used in dangerous environment</li> </ol>      |                       | n replace jobs<br>on't get tired or require a |
| 7. The Hummingbird require extra po  | wer to be able to wor | ·k.   |
| 1. Sensors 2. LEDs 3. Motors   | 4. Tri-Color LEDs     |   |
| 3. The branch of technology that deals with the des<br>Application of robots   | ign, construction, op | eration, and                                  |
| 1. Levers 2. Robotics reative po   | ower 4. Science       | CSF   |
|  | 1                     |   |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

| Approved by AICTE, NewDelni & Affiliated to Anna University, Chemian   |
|--|
| 9. When working in a group for robotics, student's should  |
| <ol> <li>Stay on task but don't work with other group members</li> <li>Socialize with group members outside of your group and then work alone</li> <li>Socialize with other group members and don't help your group</li> <li>Stay on task and work with other group members appropriately</li> </ol>   |
| 10. A rigid external covering for the body in some invertebrate animals but also robots.   |
| 1. Exoskeleton 2. Armor 3. Endoskeleton 4. Hardware  |
| 11. The 3rd law of robotics Spirit Isaac Asimov first announced the 3 laws of robotics in 1942.  |
| <ol> <li>A robot may not injure a human being or, through inaction, allow a human being to come to harm</li> <li>A robot can't go to school</li> <li>A robot must obey orders given it by human beings except where such orders would conflict with the First law</li> <li>A robot must protect its own existence as long as such protection does not conflict with the First or Second Law</li> </ol>   |
| 12. How many systems does a robot have?  1. 2 3. 4 4. 3  |
| 13. Engines and joints belong to what system?  |
| 1. Digestive system 2. Sensory system (3) Electric system 4. Mechanic system   |
| 14. How many types of robots are there?  |
| 1. 7 2. 10 3. 6 4.8 Dr. G. Balakrishnan, M.E., Ph.I  |
| 15. What are the components of the electric system?  Indra Ganesan College of Line. In Indra Ganesan College of Line. In Indra Ganesan College of Line. India Ganesan College of Line. Ind |
| 1. Electric joints and cables 3. Engines and joints  Manikandam, Trichy-620 012.  4. Thunder and lightning   |
| 16. How many components does the control system have?  |
| 1.4 21 3.2 4.5   |
| 17. The processor belongs to the   |
| 1. Sensory system 2. Mechanic system 3. Electric system (A) Control system   |
| 18. One of these is NOT a type of robot  |
| 1. Medical 2. Industrial 3. Household 4. Apologetic  |



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemnal

| 19. The small mobile perform some bu              | robot base used in<br>at not all of the tasks   | the Robot Educa<br>in the Robotics                             | tor. This robot is a<br>Engineering activi | ble to<br>ities                         |
|---|---|--|--|---|
| <ol> <li>Light sense</li> <li>Robot</li> </ol>    | or 2. Lego<br>Robo  | Mind storms Edit Educator Mode                                 | ucation Software<br>l (REM)                |   |
| 20. A block is the ba<br>Blocks perform t         | sic unit of progran<br>heir operations in   | nming in the NX<br>order along the                             | T programming<br>Sequence Beam             | Software.                               |
| 1. Touch Sens                                     |   |  | 3. Ports                                   |   |
| 21. The primary soul                              | rce of physical mot   | tion in the Mind   | storms NXT syst                            | em.                                     |
|   | Servo Motor 2   |  |  | 4. Touch Sensor                         |
| 22. A machine that is<br>three central cap<br>Act | able to interact wi<br>abilities: the abilit  | ith and respond<br>y to Sense, the a                           | to its environmen<br>bility to Plan, and   | nt characterized by<br>I the ability to |
| I. Code   | 2. Taskbar  | 3. Robots  | 4. P                                       | orts                                    |
| 23. The three characte                            | eristic capabilities  | that define a ro   | bot  |   |
| 1. Comment  | 2. Sensor   |  | Sense-Plan-Act                             |   |
| 24. When working in a                             | a group for robotic   | cs, student's sho  | uld  |   |
| (2.)Stay on task<br>3. Work alone a               | tead of work and the and don't work with and don't socialize vand work with ground work with ground command or gray command or gray Software, this is | n your group  vith group memb  p members appro  roup of comman | priately                                   | In the                                  |
| 1. Comment  | 2. Code   | 3. Ports   | 4. Robot                                   |   |
|   |   |  |  |   |



#### Value Added Course "PIC Microcontroller and ARM processor"

Year/ Sem:

AU Register Number:

ADC conversion, analyse the results

d) none of the mentioned

c) make the appropriate connections with the micro controller

|    |                                       | MULTIPLI       | E CHOICE      | E QUESTIONS (25X1 = 25 Marks)                          |             |
|----|---------------------------------------|----------------|---------------|--|-------------|
| 1  | . Which of the following              | g should a mi  | crocontrol    | ller at-least should consist of ?                      |             |
|    | a)CPU, ROM, I/O                       | ports, and tir | ners          | b) RAM, ROM, I/O ports, and timers                     |             |
|    | c) CPU, RAM, I/C                      | ports, and tir | ners          | d) CPU, RAM, ROM, I/O ports, and timers                |             |
|    |                                       | -              |               | , , , , , , , , , , , , , , , , , , ,                  |             |
| 2  | . Which of the following              | buses are pi   | esent in a    | microcontroller for transferring data from one place   | to another? |
|    | a) data bus omy                       |                |               | b) data bus, address bus                               | to another. |
|    | c) address bus only                   | y              |               | d) address bus, data bus, control bus                  |             |
|    | ***** * * * * * * * * * * * * * * * * |                |               |  |             |
| 3. | . Which of the following              | file extensio  | n that is loa | paded in a micro controller for executing any instruct | ion?        |
|    | a). c                                 | b) .txt        | c) .hex       | d) .doc  |             |
|    |                                       |                |               |  |             |
| 4. | Which of the following                | architecture   | is followed   | d by general-purpose microprocessors?                  |             |
|    | a) Von Neumann ar                     | chitecture     |               | b) Harvard architecture                                |             |
|    | c) None of the menti                  | oned           |               | d) All of the mentioned                                |             |
| -  |                                       |                |               |  |             |
| 5. | Which of the following                | micro contro   | iller doesn'  | 't match with its architecture below?                  |             |
|    | a) ARM / - Von Ne                     | umann          |               | b) Microchip PIC - Harvard                             |             |
|    | c) ARM9 Harvard                       |                |               | d) MSP430 Harvard                                      |             |
|    |                                       |                |               |  |             |
| 6. | When the micro contro                 | ller executes  | some arith    | hmetic operations, then the flag bits of which of the  |             |
|    | following register are                | affected?      |               |  |             |
|    |                                       |                | c) PC         | d) SP  |             |
|    |                                       | ,              | -,            | u) Di  |             |
| 7. | Which of the following s              | teps have to   | be followed   | ed for interfacing a sensor to a microcontroller 8051? |             |
|    | a) interface sensor w                 | ith ADC and    | ADC with      | 8021   |             |
|    | ,                                     | -ma a LUC GING | TALLY WILLIAM | 00.71  |             |

b) interface sensor with the MAX232, send now to micro controller, analyse the results controller,

Dr. G. Balakrishnan, M.E., Ph.D.,



| 8. Which of from parall                | the following<br>el to serial res  | devices are sp<br>pectively?                            | ecifically bein                              | g used for co                                     | nverting serial to pa                                    | rallel and |
|--|--|---|--|---|--|------------|
| a) Micro                               | controller   | b) timers   | c) counters                                  |   | d) registers   |            |
| 9. Which of                            | the following  | oins of a micr  | o controller ar                              | e directly con                                    | nected with 8255?  |            |
| a)WR                                   | b) D0-D7   | c) RD   |  | d) All of the                                     | mentioned  |            |
| a) they no                             | e solid-state re<br>eed less voltage<br>eed less current                                       | to be energize<br>to be energize                        | ed b)th                                      | ney need zero                                     | voltage circuit<br>ationed                               |            |
| 11. The tota                           | al space for the   | data memor  | y available in i                             | the AVR-base                                      | ed microcontroller is                                    | ?          |
| a) FFFH                                | b) FH  | c) FF   | FFH  | d) FFFFI  | FFFH   |            |
| a) it is use b) it is use c) it is use | ed to jump to the<br>ed to check the<br>ed to compare to<br>ed to compare to                   | e given menti<br>zero flag<br>wo registers<br>wo values | oned label whe                               | n the zero flag                                   | r micro controller? g accounts to 0  ogramming of ports? |            |
| a) PIN                                 | b) DDR   | c) P  | ORT  |   | of the mentioned   |            |
| 14. What will any other                | ll happen in the   | at condition,   | if an interrupt                              | occurs while                                      | the microcontroller                                      | is serving |
| b) both the c) the inter d) the inter  | rupt that is more<br>interrupts will<br>rupt having low<br>rupt which is be<br>the following l | be handled singled priority in the cing done first      | multaneously e interrupt vect will be served | or table will b<br>first<br><b>data frame s</b> i | e served first   |            |
| 16. What is the a) 3.3V                | he internal Vre<br>b) 2.56V  | of an Atme  |  | d) all  | of the mentioned   |            |
|  | analog chip.   |   | ,  | g to Digital                                      | d) None of the mer                                       | ıtioned    |
| 18. Which of<br>a)WR                   | the following p<br>b) D0-l   | 57 c)   | controller are                               | d) All of the                                     | nected with 8255?<br>he mentioned                        |            |

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

| 19. Does 8255 have handshaking capabilit | 19. | Does | 8255 have | handshaking | canability? |
|--|-----|------|-----------|-------------|-------------|
|--|-----|------|-----------|-------------|-------------|

- a) depends on the conditions
- b) cant be said

c) yes

d) no

### 20. Why are ULN2803 normally used between the micro controllers and the relays?

- a) for increasing the voltage capability required by a relay
  - b) for switching purposes
- c) for increasing the current capability required by a relay
- d) all of the mentioned

#### 21 . Why are opto isolators normally used between the micro controllers and the LN2803?

- a) to reduce the back emf b) to increase the current c) to increase the voltage d) to optimize the current
- 22. Which of the following bit/s of the status register that allows the microcontroller to operate in its low power mode?
  - a) CPU off

b) Z

c) N

d) Reserved

### 23. To improve the efficiency of an MSP430 based microcontroller, for one register

- a) there are two values for each addressing mode
- b) there is only one value for all addressing modes
- c) there are 4 values for four addressing modes
- d) there are 2 values for four addressing modes

#### 24. Which of the following is the basic functions of a timer?

- a) it can control the compare, capture mode
- b) it provided a time delay
- c) it can act as a counter
- d) all of the mentioned

#### 25. Which of the following is correct about WDTCTL?

- a) it is guided against accidental writes that require a password
- b) a rese will occur if a value with an incorrect password is written to WDTCTL
- c) it is a 16 bit register
- d) all of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



## Value Added Course

"PIC Microcontroller and ARM processor"

#### ANSWER KEY

| 1 | d | 6  | ь | 11 | С | 16 | ь | 21 | а |
|---|---|----|---|----|---|----|---|----|---|
| 2 | ď | 7  | a | 12 | a | 17 | ь | 22 | а |
| 3 | c | 8  | d | 13 | d | 18 | d | 23 | c |
| 4 | a | 9  | d | 14 | a | 19 | c | 24 | d |
| 5 | d | 10 | С | 15 | d | 20 | c | 25 | d |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

#### Value Added Course

"PIC Microcontroller and ARM processor"

Name of the Student: parthra. V

Year/Sem: W

AU Register Number: 3112 106020

d) none of the mentioned



| 1  | a)CPU, ROM, I/O ports, and timers c) CPU, RAM, I/O ports, and timers c) CPU, RAM, I/O ports, and timers c) CPU, RAM, I/O ports, and timers   |
|----|--|
| 2. | Which of the following buses are present in a microcontroller for transferring data from one place to another?  a) data bus only b) data bus, address bus c) address bus only address bus, data bus, control bus   |
| 3. | a). c b) .txt bex d) .doc  |
| 4. | a) Von Neumann architecture b) Harvard architecture c) None of the mentioned d) All of the mentioned   |
| 5. | a) ARM7 - Von Neumann b) Microchip PIC - Harvard c) ARM9 Harvard  b) Microchip PIC - Harvard  c) ARM9 Harvard  |
| 5. | When the micro controller executes some arithmetic operations, then the flag bits of which of the following register are affected?  a) DPTR by PSW c) PC d) SP   |
| 7. | Which of the following steps have to be followed for interfacing a sensor to a microcontroller 8051?  a) interface sensor with ADC and ADC with 8051  b) interface sensor with the MAX232, send now to micro controller, analyse the results controller, |
|    | ADG conversion, analyse the results  make the appropriate connections with the micro controller  |

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 



8. Which of the following devices are specifically being used for converting serial to parallel and

| from parallel                              | to serial respec  | ctively?                                  |                 |  |                                    |                |
|--|---|---|-----------------|--|------------------------------------|----------------|
| a) Micro co                                | ontroller b)  | timers c                                  | ) counters      | -/   | (d) registers                      |                |
| 9. Which of th                             | e following pin   | s of a micro co                           | ntroller are di | rectly conne   | cted with 8255?                    |                |
| a )WR                                      | b) D0-D7  | c) RD                                     | 6               | All of the me  | ntioned                            |                |
| a) they need                               | solid-state relay<br>d less voltage to<br>d less current to                                     | be energized                              | b) they         | mechanical<br>need zero vol<br>of the mention  | tage circuit                       |                |
| 11. The total                              | space for the d   | ata memory av                             | ailable in the  | AVR-based  | microcontroller is?                |                |
| a) FFFH                                    | b) FH   | <b>E</b> FFFF                             | I               | d) FFFFFF  | FH                                 |                |
| a) it is used (a) it is used b) it is used | the following is<br>to jump to the<br>d to check the ze<br>d to compare two<br>d to compare two | given mentione<br>ero flag<br>o registers |                 |  | micro controller ?<br>ccounts to 0 |                |
| 13. AVR, wi                                | hich of the follo<br>b) DDR   | owing registers<br>c) POF                 |                 | Garden   | ramming of ports? f the mentioned  |                |
|  | happen in tha interrupt?  | t condition, if a                         | n interrupt o   | ccurs while t  | he microcontroller is se           | rving          |
| (a) the inter                              | rupt that is more interrupts will be  |   |                 | r table will be  | e served first                     |                |
|  | rupt having low<br>rupt which is be   |   |                 |  | served first                       |                |
|  | the following b   | its are used for                          |                 | ata frame siz  | e?)<br>e\$zo                       |                |
| 16. What is th                             | ne internal Vre   | f of an Atmega<br>c) 5V                   | 32 series?      | d) all   | of the mentioned                   | 9              |
| 17. The 8255 a) Digital to                 | is a analog chip.   | Minput/Output                             | c) Analog       | ; to Digital   | d) None of the mention             | ned            |
| 18. Which of a)WR                          | the following p<br>b) D0-I  |   |                 |  | rected with 8255?                  |                |
|  |   | ,   |                 | and the same of th | Dr. G. Balakrish                   | ipui           |
|  |   |   |                 |  |                                    | of Engineering |



| 19. Does 8255 have handsh                     | iaking capability?           |                              |                           |
|---|------------------------------|------------------------------|---------------------------|
| <ul> <li>a) depends on the condit</li> </ul>  | tions b) cant be             | said                         |                           |
| (E) yes /                                     | d) no                        |                              |                           |
|   |                              |                              |                           |
| 20. Why are ULN2803 nor                       |                              |                              | elays?                    |
| <ul> <li>a) for increasing the vol</li> </ul> | ltage capability required by | y a relay                    |                           |
| b) for switching purpos                       |                              |                              |                           |
| for increasing the cur                        | rrent capability required by | a relay                      |                           |
| d) all of the mentioned                       |                              | -                            |                           |
|   |                              |                              |                           |
| 21 . Why are opto isolators                   | normally used between t      | he micro controllers and th  | e LN2803?                 |
| ATT I I I I                                   | 45                           |                              |                           |
| and reduce the back emf                       | b) to increase the current   | c) to increase the voltage   | d) to optimize the curren |
|   |                              |                              |                           |
| 22. Which of the following                    | hit/s of the status register | r that allows the microson   | trallar to anarota        |
| in its low power mode                         | ?                            | mat anows the mici ocon      | troner to operate         |
| @CPU off                                      | b) Z                         |                              |                           |
| c) N  | d) Reserved                  |                              |                           |
|   |                              |                              |                           |
| 23. To improve the efficien                   | cy of an MSP430 based m      | nicrocontroller, for one reg | gister                    |
| a) there are two values f                     | for each addressing mode     |                              |                           |
| b) there is only one valu                     | e for all addressing modes   |                              |                           |
| Othere are 4 values for                       | four addressing modes        |                              |                           |
| d) there are 2 values for                     |                              |                              |                           |
| , ,   |                              |                              |                           |
| 24 3376.1.1 e.t e.m                           |                              |                              |                           |
| 24. Which of the following                    |                              | a timer?                     |                           |
| a) it can control the con                     | -                            |                              |                           |
| b) it provided a time de                      | ,                            |                              |                           |
| c) it can act as a counter                    | r                            |                              |                           |
| of the mentioned                              |                              |                              |                           |
| 48 333 1 2 4 2 4 2 4                          |                              |                              |                           |
| 25. Which of the following                    |                              |                              |                           |
|   | cidental writes that require |                              |                           |
|   | value with an incorrect pas  | ssword is written to WDTC    | TL 9                      |
| c) it is a 16 bit register                    |                              |                              |                           |
| all of the mentioned                          |                              | 1 /                          | 0./                       |
| 1 1   |                              | 1 (                          | P                         |
|   |                              |                              |                           |
|   |                              |                              | 1 1 1 1 1 1 Do ()         |



#### Value Added Course

"PIC Microcontroller and ARM processor"



Name of the Student: Keerthika. D

AU Register Number: 811216106013

Year/ Sem:  $\frac{\sqrt{\sqrt{t}}}{\sqrt{t}}$ 

#### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

| 1. 1 | Which of the follow | ving shoul | ld a microco | ontroller at-leas | st should consis | t of? |
|------|---------------------|------------|--------------|-------------------|------------------|-------|
|      | NODEL DOLL          | TIO        | 1.15         | 11 - 12 -         |                  | _     |

a) CPU, ROM, I/O ports, and timers

b) RAM, ROM, I/O ports, and timers

c) CPU, RAM, I/O ports, and timers

(PU, RAM, ROM, I/O ports, and timers

| 2. Which of the following buses are present in a microcontroller for transferring data from one place to a | nother? |
|--|---------|
|--|---------|

a) data bus only

b) data, bus, address bus

c) address bus only

d) address bus, data bus, control bus

| 3. Which of the following file extension that is loaded in a micro controller for executing any instruc | ruction | g any ins | for executing | ller for | micro control | loaded in a | ension that is | wing file e | of the follo | Which | 3. |
|---|---------|-----------|---------------|----------|---------------|-------------|----------------|-------------|--------------|-------|----|
|---|---------|-----------|---------------|----------|---------------|-------------|----------------|-------------|--------------|-------|----|

- a). c
- b) .txt
- (1).hex

d).doc

#### 4. Which of the following architecture is followed by general-purpose microprocessors?

- (a) Vow Neumann architecture
- b) Harvard architecture

c) None of the mentioned

d) All of the mentioned

#### 5. Which of the following micro controller doesn't match with its architecture below?

- a) ARM7 Von Neumann
- b) Microchip PIC Harvard

ARM9 Harvard

d) MSP430 Harvard

# 6. When the micro controller executes some arithmetic operations, then the flag bits of which of the following register are affected?

a) DPTR

USDPS/

c) PC

d) SP

#### 7. Which of the following steps have to be followed for interfacing a sensor to a microcontroller 8051?

(a) interface sensor with ADC and ADC with 8051

- b) interface sensor with the MAX232, send now to micro controller, analyse the results controller, ADC conversion, analyse the results
- c) make the appropriate connections with the micro controller
- d) none of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



| 8. Which of t | he following    | g devices ar                          | e specifica     | lly being u | sed for conv    | erting serial to paral | lel and        |
|---------------|-----------------|---------------------------------------|-----------------|-------------|-----------------|------------------------|----------------|
| from paralle  | l to serial re  | spectively?                           |                 |             |                 | , and the second       |                |
| a) Micro o    | controller      | b) timers                             | Be              | ounters     |                 | d) registers           |                |
| 9. Which of t | he following    | g pins of a n                         | ilcro contr     | oller are d | irectly conn    | ected with 8255?       |                |
| a)WR          | b) D0-D7        | c) :                                  | RID             |             | AM of the m     | entioned               |                |
| 10. Why are   | solid-state     | relavs adva                           | ntageous        | ver electr  | mechanica       | l relays?              |                |
| a) they ne    | ed less volta   | ge to be ener                         | gized           |             | need zero vo    |                        |                |
|               | ed less curre   |                                       |                 |             | of the ment     | <u> </u>               |                |
| 11. The tota  | l space for t   | he data mei                           | mory avail      | able in the | AVR-based       | d microcontroller is?  |                |
| GOFFFH        | b) F            | H c)                                  | ) FFFFH         |             | d) FFFFFI       | FFH                    |                |
| 12. Which o   | f the followi   | ng is correc                          | t about BI      | RNE instru  | iction in avr   | micro controller?      |                |
| (A) it is use | ed to jump to   | the given m                           | entioned la     | abel when t | he zero flag    | accounts to 0          |                |
|               | ed to check th  | _                                     |                 |             |                 |                        |                |
|               | d to compare    |                                       |                 |             |                 |                        |                |
| c) it is use  | ed to compare   | e two values                          |                 |             |                 |                        |                |
| 12 ATTD       | alata ta a Cala | c. 31 ·                               |                 |             |                 |                        |                |
| 13. AVK, W    | nich of the     | Ioliowing re                          |                 | e there for |                 | gramming of ports?     |                |
| a) PIN        | b) DDR          |                                       | c) PORT         |             | (d) AH          | of the mentioned       |                |
| 14. What will | ll hannen in    | that condit                           | ion if an i     | ntarmunt o  | oon wa wakila . | the microcontroller is |                |
| anviothe      | r interrupt?    | · · · · · · · · · · · · · · · · · · · | 1011, 11 411 11 | uterrupt o  | ccurs while     | me microcontromer i    | s serving      |
|               |                 |                                       | in the inte     |             | 4               | ¥ /**                  |                |
| b) both the   | interrupts v    | note priority                         | od almosta      | rrupt vecto | r table will b  | e served first         |                |
|               |                 |                                       |                 |             | . 11 ****       |                        |                |
| d) the inter  | rupi naving     | iow priority                          | in the inter    | rupt vector | table will be   | e served first         |                |
| u) the inter  | rupt which is   | s being done                          | first will b    | e served fi | rst             |                        |                |
| a) MPCM       | the lonown      | ig bits are u                         |                 |             |                 |                        |                |
| a) IVII CIVI  |                 | b) DO                                 | R c) U          | 2X          | (O) (           | ZSZO                   |                |
| 16. What is t | he internal.    | Vref of an A                          | tmega32 s       | series?     |                 |                        |                |
| a) 3.3V       | 672,56          | V                                     | c) 5V           | 441 1404    | d) all          | of the mentioned       | O              |
| 17. The 8255  | ie o            |                                       |                 |             |                 |                        |                |
|               | o analog chip   | BUTT                                  | Output          | o) A        | 4 - TN1 - 10 T  | 1) > 7                 |                |
| u) Digital ti | o analog chip   | . Coy input                           | Output          | c) Analog   | to Digital      | d) None of the men     | tioned         |
| 18. Which of  | the followin    | g pins of a                           | microcont       | roller are  | tirectly cons   | nected with 8255?      | 1              |
| a)WR          | b) I            | 00-D7                                 | c) RD           | MAR (V )    |                 | he mentioned           |                |
|               | ,               |                                       | -               |             | 7               |                        | _              |
|               |                 |                                       |                 |             | e <sup>c</sup>  | Dr. G. Balakrishn      | an, M.E., Ph.I |
|               |                 |                                       |                 |             |                 | Princip                | al             |

| 19. Does 8255 have handshaking capability | 19. | <b>Does 825</b> | 5 have | handshaking | capability |
|---|-----|-----------------|--------|-------------|------------|
|---|-----|-----------------|--------|-------------|------------|

- a) depends on the conditions
- b) cant be said

c) yes

#### 20. Why are ULN2803 normally used between the micro controllers and the relays?

- a) for increasing the voltage capability required by a relay
- b) for switching purposes
- The increasing the current capability required by a relay
- d) all of the mentioned

#### 21 . Why are opto isolators normally used between the micro controllers and the LN2803?

(a) to reduce the back emf b) to increase the current c) to increase the voltage d) to optimize the current

# 22. Which of the following bit/s of the status register that allows the microcontroller to operate in its low-power mode?

(1) CPU off

b) Z

d) Reserved

#### 23. To improve the efficiency of an MSP430 based microcontroller, for one register

- a) there are two values for each addressing mode
- b) there is only one value for all addressing modes
- Othere are 4 values for four addressing modes
- d) there are 2 values for four addressing modes

#### 24. Which of the following is the basic functions of a timer?

- a) it can control the compare, capture mode
- b) it provided a time delay
- c) it can act as a counter
- (d) all of the mentioned

#### 25. Which of the following is correct about WDTCTL?

- a) it is guided against accidental writes that require a password
- b) a rese will occur if a value with an incorrect password is written to WDTCTL
- c) it is a 16 bit register
- (1) of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course

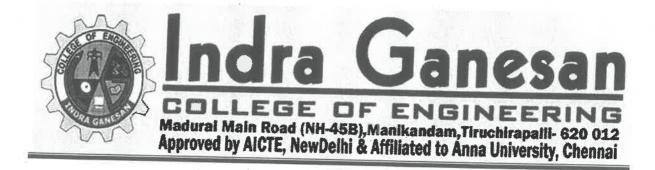
"Evaluation of CREO"

|   | Evaluation of CREO                               |
|---|--|
| MCO O   | UESTIONS (25X4 = 100 Marks)                      |
| <ol> <li>Which one of the following</li> <li>a) Manufacturing</li> </ol>  | is the sub process of CAD? c) Design Engineering |
| b) both c and d   | d) Computer Graphics                             |
| <ul><li>Which one of the following</li><li>a) Network</li></ul>           | is the sub process of CAM?                       |
| b) All Of These   | d) Manufacturing                                 |
| <ul><li>3. Which model is the iterative</li><li>a) Ohsuga model</li></ul> | _  |
| b) Pahl and Beitz model.  | d) E-arle model                                  |
| <ol><li>What is the other name of wo</li><li>a) viewpoint.</li></ol>      | rld coordinate system?<br>c) Hierarchical.       |
| b) universe   | d) none of these.                                |
| 5. Device coordinates system car<br>a) pixels                             | n be represented in terms of<br>c) inch          |
| b) foot   | d) All Of These                                  |
| <ol> <li>In right coordinate system, inc</li> <li>a) y axis</li> </ol>    | dex finger represented as c) x axis              |
| b) reverse of z axis  | d) z axis  |

| 7.  | What is zooming? a) scaling+translation+clipping                           | c) scaling +clipping                       |
|-----|--|--|
|     | b) scaling+translation   | d) translation+clipping                    |
| 8.  | Which algorithm can give the value very a) DDA algorithm                   | accurately? c) sutherland algorithm        |
|     | b) Bresenham 's algorithm  | d) both a and b                            |
| 9.  | What happen that the scaling factor are less a) both c and d               | than 1? c) reduce the size of the object   |
|     | b) object is moved away the origin   | d) object is moved towards the origin      |
| 10  | . CAD Software consists of a) system software                              | c) both a and b                            |
|     | b) application software  | d) hardware                                |
| 11. | Fundamental reasons for implementing a CA a) To improve the quality design | AD system is c) To increase the quantity   |
|     | b) To improve the performance  | d) To define the problem and specification |
| 12. | Popular software packages used for modeling a) C++                         | g is<br>c) JAVA                            |
|     | b) AutoCAD, PROE   | d) FEA                                     |
|     | The basic types of geometric transformations a) Translation                | s are c) scaling                           |
|     | b) shearing  | d) All the above                           |
|     | Drawing commands used in a CAD package a) Hexagon                          | isand M∞τ to be same.<br>c) Octagon.       |
|     | b) Circle  | d) line                                    |
|     |  |  |

| 15. | The method of selecting and enlarging portion a) window   | ns of drawing on the display is termed as c) windowing          |
|-----|---|---|
|     | b) Clipping.  | d) Screening.   |
| 16. | Any parts of the geometry is not inside the v<br>software through a process known as<br>a) clipping | window,it is made invisible by the graphics c) windowing        |
|     | b) viewing transformation   | d) none of these  |
| 17. | Which of the following condition are applied a) sx>sy   | while zooming or magnifying the object? c) sx=sy                |
|     | b) sx <sy< td=""><td>d) all of these</td></sy<>   | d) all of these   |
| 18. | What happen that the scaling factor is greater a) Reduce the size of the object.                    | r than 1? c) Object is moved away the origin.                   |
|     | b) Object is moved away from the origin.  | d) both a and c.  |
| 19. | Which are the following are satisfied the fear<br>a) both b and c                                   | tures of line drawing algorithm? c) line should appear straight |
|     | b) line should terminate accurately at the end  | d) line should terminate accurately at the middle               |
| 20  | . Which one of the following characters affect a) component size                                    | ts the cost of the given tolerance? c) Geometry.                |
|     | b) Orientation.   | d) Interference.  |
| 21  | . A tolerance grade was standardize by a) ISO 4000  | c) both a and b   |
|     | b) ISO (BS4200)   | d) ISO (BS4500)   |
| 22  | which one of the following are transfer mot a) mechanism  | ions or forces from a source to an output? c) Kinematics.       |
|     | b) simulation   | d) all of these   |

| 23.      | <ul> <li>Tolerance grades were specified in terms of<br/>a) microns</li> </ul> | c) millimeter                        |
|----------|--|--------------------------------------|
|          | b) Meter   | d) none of these                     |
| 24.      | The enveloped surface is known as  | c) male                              |
|          | b) smoothing   | d) polishing                         |
| 25.<br>1 | Which one of the following is the difference parts?                            | between the basic size of the mating |
| 8        | a) Allowance.  | c) Actual size.                      |
| ł        | o) Tolerance.  | d) Zero line.                        |
|          | Table 1  |                                      |



#### Value Added Course

### "Evaluation of CREO"

#### ANSWER KEY

| 1 | b | 6  | a | 11 | a | 16 | a | 21 | d |
|---|---|----|---|----|---|----|---|----|---|
| 2 | b | 7  | a | 12 | ь | 17 | С | 22 | a |
| 3 | a | 8  | b | 13 | ď | 18 | d | 23 | a |
| 4 | ь | 9  | a | 14 | b | 19 | a | 24 | c |
| 5 | a | 10 | c | 15 | С | 20 | a | 25 | a |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

VAC Coordinator

| Name of the Student:   | rdhalounar.p                                     |
|--|--|
| AU Register Number: 🖔  | 112/61/4023                                      |
|  | Value Added Course                               |
|  | "Evaluation of CREO"                             |
| MCO O  | UESTIONS (25X4 = 100 Marks)                      |
| <ol> <li>Which one of the following</li> <li>a) Manufacturing</li> </ol> | is the sub process of CAD? c) Design Engineering |
| b) both c and d  | d) Computer Graphics                             |
| <ul><li>Which one of the following</li><li>a) Network</li></ul>          | is the sub process of CAM? c) CAD                |
| (b) All Of These   | d) Manufacturing                                 |
| 3. Which model is the iterative (a) Ohsuga model                         | process?  c) Shigley model                       |
| b) Pahl and Beitz model.   | d) E-arle model                                  |
| 4. What is the other name of wo a) viewpoint.                            | rld coordinate system?<br>c) Hierarchical.       |
| b) universe  | d) none of these.                                |
| 5. Device coordinates system car a pixels                                | n be represented in terms of c) inch             |
| b) foot  | d) All Of These                                  |
| 6. In right coordinate system, in  | dex finger represented as                        |

b) reverse of z axis

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620'012.

d) z axis

| 7. What is zooming?   | 2  |
|---|--|
| a) scaling+translation+clipping   | c) scaling +clipping                       |
| b) scaling+translation  | d) translation+clipping                    |
| 8. Which algorithm can give the value ve                                      | ery accurately?                            |
| a) DDA algorithm  | c) sutherland algorithm                    |
| b) Bresenham 's algorithm   | d) both a and b                            |
| 9. What happen that the scaling factor are l                                  | ess than 1?                                |
| (a) both c and d  | c) reduce the size of the object           |
| b) object is moved away the origin  | d) object is moved towards the origin      |
| 10. CAD Software consists of  |  |
| a) system software  | c) both a and b                            |
| b) application software   | d) hardware                                |
| 11. Fundamental reasons for implementing a                                    | CAD system is                              |
| a) To improve the quality design  | c) To increase the quantity                |
| b) To improve the performance   | d) To define the problem and specification |
| <ul><li>12. Popular software packages used for model</li><li>a) C++</li></ul> | ing is c) JAVA                             |
| AutoCAD PROF  |  |
| (b) AutoCAD, PROE   | d) FEA                                     |
| 13. The basic types of geometric transformatio                                | ns are                                     |
| a) Translation  | c) scaling                                 |
| b) shearing   | (d) All the above                          |
| 14. Drawing commands used in a CAD package                                    | e isand M∞τ to be same.                    |
| a) Hexagon  | c) Octagon.                                |
| (b) Circle  | d) line                                    |
|   | Dr. G. Balaka                              |
|   | Dr. G. Balakrishnan, M.E., Ph.D.,          |

| ı   |  |
|---|--|
| <ul><li>15. The method of selecting and enlarging p</li><li>a) window</li></ul>                               | ortions of drawing on the display is termed as c) windowing        |
| b) Clipping.  | d) Screening.  |
| <ul><li>16. Any parts of the geometry is not inside software through a process known as a) clipping</li></ul> | the window, it is made invisible by the graphics  c) windowing     |
| b) viewing transformation   | d) none of these   |
| 17. Which of the following condition are appliance a) sx>sy   | lied while zooming or magnifying the object?                       |
| b) sx <sy< td=""><td>d) all of these</td></sy<>   | d) all of these  |
| <ul><li>18. What happen that the scaling factor is great</li><li>a) Reduce the size of the object.</li></ul>  | c) Object is moved away the origin.                                |
| b) Object is moved away from the origin.  | d) both a and c.   |
| 19. Which are the following are satisfied the fe  | eatures of line drawing algorithm?  c) line should appear straight |
| b) line should terminate accurately at the end  | d) line should terminate accurately at the middle                  |
| 20. Which one of the following characters affe  | cts the cost of the given tolerance? c) Geometry.                  |
| b) Orientation.   | d) Interference.   |
| 21. A tolerance grade was standardize by a) ISO 4000  | c) both a and b  |
| b) ISO (BS4200)   | d) ISO (BS4500)  |
| 22. Which one of the following are transfer moti  | ons or forces from a source to an output? c) Kinematics.           |
| b) simulation   | d) all of these Dr. G. Balakrishnan, M.E., Ph.D.,                  |

| 23. Tolerance grades were specifial microns | fied in terms of                                    |
|---|---|
| b) Meter                                    | d) none of these                                    |
| 24. The enveloped surface is kno a) female  | wn asc) male  |
| b) smoothing                                | d) polishing  |
| 25. Which one of the following is parts?    | the difference between the basic size of the mating |
| a) Allowance.                               | c) Actual size.                                     |
| b) Tolerance.                               | d) Zero line.                                       |
| Λ .   |   |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Name of the Student:

Year / Sem:

AU Register Number:

## Value Added Course

" Cloud Service Management Tools"

#### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1. What is Cloud Computing?
  - a) Cloud Computing means providing services like storage, servers, database, networking,

etc

- b) Cloud Computing means storing data in a database
- c) Cloud Computing is a tool used to create an application
- d) None of the mentioned
- 2. Who is the father of cloud computing?
  - a) Sharon B. Codd
  - b) Edgar Frank Codd
  - c) J.C.R. Licklider
  - d) Charles Bachman
- 3. Which of the following is not a type of cloud server?
  - a) Public Cloud Servers
  - b) Private Cloud Servers
  - c) Dedicated Cloud Servers
  - d) Merged Cloud Servers

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

- 4. Which of the following are the features of cloud computing?
  - a) Security
  - b) Availability.
  - c) Large Network Access
  - d) All of the mentioned
- 5. Which of the following is a type of cloud computing service?
  - a) Service-as-a-Software (SaaS)
  - b) Software-and-a-Server (SaaS)
  - c) Software-as-a-Service (SaaS)
  - d) Software-as-a-Server (SaaS)
- 6. Which of the following is the application of cloud computing?
  - a) Adobe
  - b) Paypal
  - c) Google G Suite
  - d) All of the above



- 7. Which of the following is an example of the cloud?
  - a) Amazon Web Services (AWS)
  - b) Dropbox
  - c) Cisco WebEx
  - d) All of the above
  - 8. Applications and services that run on a distributed network using virtualized resources is known as
    - a) Parallel computing
    - b) Soft computing
    - c) Distributed computing
    - d) Cloud computing
  - 9. Which of the following is an example of a PaaS cloud service?
    - a) Heroku
    - b) AWS Elastic Beanstalk
    - c) Windows Azure
    - d) All of the above

10. Which of the following is an example of an IaaS Cloud service?

a) DigitalOcean

b) Linode

c) Rackspace

d) All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

- 11. Which of the following is the correct statement about cloud computing?
  - a) Cloud computing abstracts systems by pooling and sharing resources
  - b) Cloud computing is nothing more than the Internet
  - c) The use of the word "cloud" makes reference to the two essential concepts
  - d) All of the mentioned
- 12. Point out the wrong statement.
  - a) Azure enables .NET Framework applications to run over the Internet
  - b) Cloud Computing has two distinct sets of models
  - c) Amazon has built a worldwide network of datacenters to service its search engine
  - d) None of the mentioned
- 13. Which of the following model attempts to categorize a cloud network based on four dimensional factors?
  - a) Cloud Cube
  - b) Cloud Square
  - c) Cloud Service
  - d) All of the mentioned
- 14. Which of the following is the correct statement about cloud types?
- a) Cloud Square Model is meant to show is that the traditional notion of a network boundary being the network's firewall no longer applies in cloud computing
- b) A deployment model defines the purpose of the cloud and the nature of how the cloud is located
  - c) Service model defines the purpose of the cloud and the nature of how the cloud is located
  - d) All of the mentioned



| a)<br>b)<br>c)                                   | hich architectural layer is used as a backend in cloud cloud soft client all of the mentioned  | computing?  |
|--|--|---|
| connection a) noiselection b) proceedings        | pagation   | ent that is intrinsic in their WAN                                |
| <ul><li>a) W</li><li>b) S</li><li>c) S</li></ul> | hich of the following architectural standards is workingly eb-application frameworks ervice-oriented architecture tandardized Web services and the mentioned | ng with cloud computing industry?                                 |
|  | nat type of computing technology refers to services uted network through virtualized resources?  | and applications that typically run on a                          |
| a.   | Distributed Computing  | Dr. G. Balakrishnan, M.E., Ph.D.,                                 |
| b.   | Cloud Computing  | Principal   |
| c.   | Soft Computing   | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |
| d.   | Parallel Computing   | Manikandam, Trichy-620 012.                                       |
| 19.Wł  | nich one of the following options can be considered a  | s the Cloud?  |
| a.   | Hadoop   |   |
| b.   | Intranet   |   |
| c.   | Web Applications   |   |
| d.   | All of the mentioned   |   |
|  | oud computing is a kind of abstraction which is ba   |   |

- a. Real
- b. Cloud
- c. Virtual
- d. none of the mentioned



- 21. Which of the following has many features of that is now known as cloud computing?
  - a. Web Service
  - b. Softwares
  - c. All of the mentioned
  - d. Internet
- 22. Which one of the following cloud concepts is related to sharing and pooling the resources?
  - a. Polymorphism
  - b. Virtualization
  - c. Abstraction
  - d. None of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

- 23. Which one of the following statements is not true?
  - a. The popularization of the Internet actually enabled most cloud computing systems.
  - b. Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
  - c. Soft computing addresses a real paradigm in the way in which the system is deployed.
  - d. All of the mentioned
- 24. Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?
  - a. Computing
  - b. Model
  - c. Software
  - d. All of the mentioned
- 25. Which of the following is an essential concept related to Cloud?
  - a. Reliability
  - b. Abstraction
  - c. Productivity



## Value Added Course

"Cloud Service Management Tools"

## **ANSWER KEY**

| 1 | A | 6  | D | 11 | A | 16 | С | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | С | 7  | D | 12 | С | 17 | В | 22 | В |
| 3 | D | 8  | D | 13 | Α | 18 | В | 23 | C |
| 4 | D | 9  | D | 14 | В | 19 | A | 24 | A |
| 5 | С | 10 | D | 15 | A | 20 | С | 25 | В |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. S, Surfator



adurai Main Road (NH-45B),Manikandam Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Name of the Student:

Boopalan. k

AU Register Number: 811216205005

## Value Added Course

"Cloud Service Management Tools"

**MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)** 

1. What is Cloud Computing?

Cloud Computing means providing services like storage, servers, database, networking,

etc

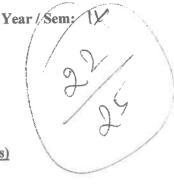
- b) Cloud Computing means storing data in a database
- c) Cloud Computing is a tool used to create an application
- d) None of the mentioned
- 2. Who is the father of cloud computing?
  - a) Sharon B. Codd
  - b) Edgar Frank Codd
- J.C.R. Licklider
  - d) Charles Bachman
- 3. Which of the following is not a type of cloud server?
  - a) Public Cloud Servers
  - b) Private Cloud Servers
  - c) Dedicated Cloud Servers
- A) Merged Cloud Servers

4. Which of the following are the features of cloud computing?

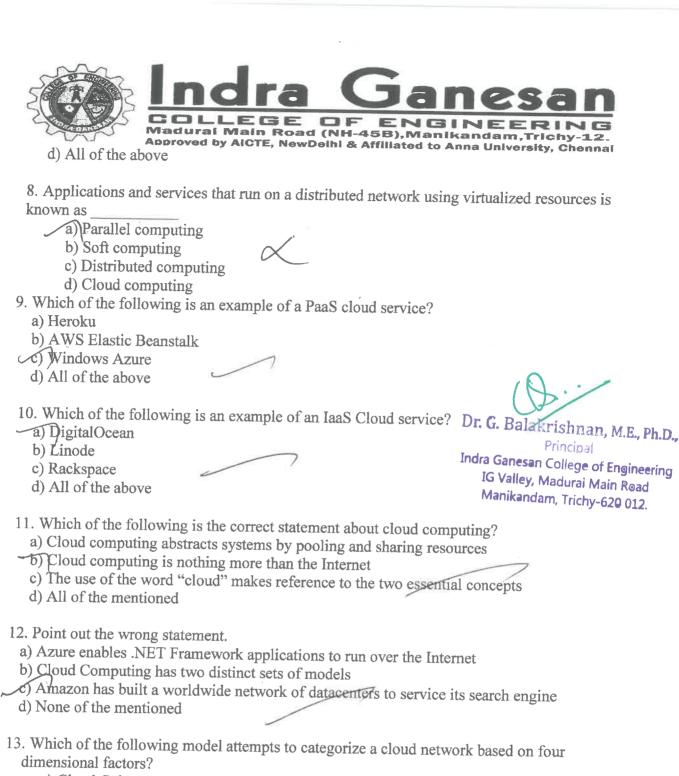
- a) Security
- b) Availability
- c) Large Network Access
- d All of the mentioned

5. Which of the following is a type of cloud computing service?

- a) Service-as-a-Software (SaaS)
- b) Software-and-a-Server (SaaS)
- c) Software-as-a-Service (SaaS)
  - d) Software-as-a-Server (SaaS)
- 6. Which of the following is the application of cloud computing?
  - a) Adobe
  - b) Paypal
  - c) Google G Suite
  - A) All of the above



Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



- a) Cloud Cube
- b) Cloud Square
- \_c) Cloud Service
  - d) All of the mentioned

14. Which of the following is the correct statement about cloud types?

a) Cloud Square Model is meant to show is that the traditional notion of a network boundary being the network's firewall no longer applies in cloud computing

b) A deployment model defines the purpose of the cloud and the nature of how the cloud is located

c) Service model defines the purpose of the cloud and the nature of how the cloud is located

All of the mentioned

15. Which architectural layer is used as a backend in cloud computing?

- a) cloud
- b) soft

d) all of the mentioned





| conn<br>a) no<br>b) pr    | all cloud computing applications suffer from the inherentectivity.  bise ropagation tency  l of the mentioned  | that is intrinsic in their WAN  |
|---------------------------|--|---|
| a) \<br>-b) \<br>c) \( \) | Which of the following architectural standards is working with Web-application frameworks Service-oriented architecture Standardized Web services All of the mentioned | n cloud computing industry?   |
| a. b. 19.W                | Cloud Computing Soft Computing Parallel Computing hich one of the following options can be considered as the Clo   | Dr. G. Balakrishnan, M.E., Ph.D.,<br>Principal<br>Indra Ganesan College of Engineering<br>IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
|                           | oud computing is a kind of abstraction which is based on reces and represents them asresources to users.   | the notion of combining physical  |
| a.                        | Real   |   |
| b.                        | Cloud  |   |
| JC.                       | Virtual  |   |
| d.                        | none of the mentioned  |   |



- a. Web Service
- b. Softwares
- c. All of the mentioned

Internet

- 22. Which one of the following cloud concepts is related to sharing and pooling the resources?
  - a. Polymorphism

b. Virtualization

- c. Abstraction
- d. None of the mentioned
- 23. Which one of the following statements is not true?
  - a. The popularization of the Internet actually enabled most cloud computing systems.
  - b. Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
- Soft computing addresses a real paradigm in the way in which the system is deployed.
  - d. All of the mentioned
- 24. Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?
  - a. Computing
  - b. Model

. C. Software

- d. All of the mentioned
- 25. Which of the following is an essential concept related to Cloud?

ga Reliability

- b. Abstraction
- c. Productivity
- d. All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



## Indra Ganesan

Madural Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Name of the Student: Bharath - C

AU Register Number: 811216205004

## Value Added Course

" Cloud Service Management Tools"

## **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

1. What is Cloud Computing?

(a) Ploud Computing means providing services like storage, servers, database, networking,

etc

- b) Cloud Computing means storing data in a database
- c) Cloud Computing is a tool used to create an application
- d) None of the mentioned

2. Who is the father of cloud computing?

- a) Sharon B. Codd
- b) Edgar Frank Codd
- c) J.C.R. Licklider
  - d) Charles Bachman
- 3. Which of the following is not a type of cloud server?
  - a)-Rublic Cloud Servers
  - b) Private Cloud Servers
  - c) Dedicated Cloud Servers
  - d) Merged Cloud Servers

4. Which of the following are the features of cloud computing?

- a) Security
- (b) Availability
  - c) Large Network Access
  - d) All of the mentioned

5. Which of the following is a type of cloud computing service?

- a) Service-as-a-Software (SaaS)
- b) Software-and-a-Server (SaaS)
- c) Software-as-a-Service (SaaS)
  - d) Software-as-a-Server (SaaS)

6. Which of the following is the application of cloud computing?

- a) Adobe
- b) Paypal
- © Google G Suite

d) All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandem, Trichy-620 012.

Year / Sem: IV



| d) All of the above   |
|---|
| 8. Applications and services that run on a distributed network using virtualized resources is known as  |
| a) Cloud computing abstracts systems by pooling and sharing resources b) Cloud computing is nothing more than the Internet  The use of the word "cloud" makes reference to the two essential concepts d) All of the mentioned   |
| <ul> <li>12. Point out the wrong statement.</li> <li>a) Azure enables .NET Framework applications to run over the Internet</li> <li>b) Cloud Computing has two distinct sets of models</li> <li>c) Amazon has built a worldwide network of datacenters to service its search engine</li> <li>d) None of the mentioned</li> </ul>  |
| 13. Which of the following model attempts to categorize a cloud network based on four dimensional factors?  a) Cloud Cube b) Cloud Square c))Cloud Service d) All of the mentioned  |
| 14. Which of the following is the correct statement about cloud types?  (a) Cloud Square Model is meant to show is that the traditional notion of a network boundary being the network's firewall no longer applies in cloud computing  (b) A deployment model defines the purpose of the cloud and the nature of how the cloud is located  (c) Service model defines the purpose of the cloud and the nature of how the cloud is located d) All of the mentioned |
| 15. Which architectural layer is used as a backend in cloud computing?  a) cloud b) soft c) client d) all of the mentioned  |



# Indra Ganesan COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

| Approved by AICTE, NewDelhi & Affiliated   | to Anna University, Citemia                                 |
|--|---|
| 16. All cloud computing applications suffer from the inherent  | that is intrinsic in their WAN                              |
| connectivity.  |   |
| a) noise   |   |
| b) propagation   |   |
| d) all of the mentioned  |   |
| 17. Which of the following architectural standards is working with a) Web-application frameworks b) Service-oriented architecture c) Standardized Web services d) All of the mentioned | cloud computing industry?                                   |
| 18. What type of computing technology refers to services and a distributed network through virtualized resources?  | pplications that typically run on a                         |
| a. Distributed Computing   |   |
| b. Cloud Computing   |   |
| c. Soft Computing  |   |
| d. Parallel Computing  |   |
| 19. Which one of the following options can be considered as the C  | Cloud?  |
| a. Hadoop  | Dr. C. D.L.   |
| b. Intranet  | Principal   |
| c. Web Applications  | Indra Ganesan College of Engineering                        |
| d. All of the mentioned  | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| 20. Cloud computing is a kind of abstraction which is based or resources and represents them asresources to users.   | n the notion of combining physical                          |
| a. Real  |   |
| b. Cloud   |   |
| c. Virtual   |   |
| d. none of the mentioned   |   |

fortures of that is now known as cloud computing?



- a. Web Service
- by Softwares
- c. All of the mentioned
- d. Internet
- 22. Which one of the following cloud concepts is related to sharing and pooling the resources?
  - a. Polymorphism
  - b. Virtualization
  - c. Abstraction
  - d. None of the mentioned
- 23. Which one of the following statements is not true?
  - a. The popularization of the Internet actually enabled most cloud computing systems.
  - b. Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
  - c. Soft computing addresses a real paradigm in the way in which the system is deployed.
  - d. All of the mentioned
- 24. Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?
  - a. Computing

ts.7 Model

- c. Software
- d. All of the mentioned
- 25. Which of the following is an essential concept related to Cloud?
  - a. Reliability
  - b. Abstraction
  - c. Productivity

All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



## Indra Ganesan

Madural Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Name of the Student:

kuishnan. K

**AU Register Number:** 

811216205011

## Value Added Course

"Cloud Service Management Tools"

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1. What is Cloud Computing?

a) Cloud Computing means providing services like storage, servers, database, networking,

etc

b) Cloud Computing means storing data in a database

- c) Cloud Computing is a tool used to create an application
- d) None of the mentioned
- 2. Who is the father of cloud computing?
  - a) Sharon B. Codd
- (b) Edgar Frank Codd
  - c) J.C.R. Licklider
  - d) Charles Bachman

3. Which of the following is not a type of cloud server?

- a) Public Cloud Servers
- b) Private Cloud Servers
- c) Dedicated Cloud Servers
- d) Merged Cloud Servers

4. Which of the following are the features of cloud computing?

- a) Security
- b) Availability
- C) Large Network Access
  - d) All of the mentioned

5. Which of the following is a type of cloud computing service?

- a) Service-as-a-Software (SaaS)
- b) Software-and-a-Server (SaaS)
- © Software-as-a-Service (SaaS)
  - d) Software-as-a-Server (SaaS)

6. Which of the following is the application of cloud computing?

- a) Adobe
- b) Paypal
- c) Google G Suite

All of the above

/



Year / Sem: 1 V



| E., Ph.D.,     |
|----------------|
| ineering       |
| _              |
| _              |
| oad            |
| 012.           |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
| ary<br>is<br>d |
|                |
| is             |



| c. Soft Computing  |                  |   |  |                              |  |
|--|------------------|---|--|------------------------------|--|
| 18. What type of computing technology refers to services and applications that typically run on distributed network through virtualized resources?  a. Distributed Computing b. Gloud Computing c. Soft Computing d. Parallel Computing lindra Ganesan College of Engineering Indra Ganesan College of Engineering Indra Ganesan College of Engineering Indra Ganesan College of Engineering Wanikandam, Trichy-620 012.  19. Which one of the following options can be considered as the Cloud?  20. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as resources to users.  a. Real b. Cloud Virtual | a) b)            | noise<br>propagation<br>latency   | cations suffer from                    | the inherent                 | that is intrinsic in their WAN   |
| a. Distributed Computing  b. Gloud Computing  c. Soft Computing  d. Parallel Computing  19. Which one of the following options can be considered as the Cloud?  All of the mentioned  20. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them asresources to users.  a. Real  b. Cloud  C. Virtual   | ره<br>(طر<br>(c) | Service-oriented architectus<br>Standardized Web services   | rks<br>ire                             | is working with cl           | oud computing industry?  |
| b Gloud Computing c. Soft Computing d. Parallel Computing Indra Ganesan College of Engineerin IG Valley, Madurai Main Road Manikandam, Trichy-620 012.  19. Which one of the following options can be considered as the Cloud?  Litadoop b. Intranet c. Web Applications d. All of the mentioned  20. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them asresources to users.  a. Real b. Cloud c. Virtual   | 18.V<br>distr    | What type of computing ted ibuted network through virt  | chnology refers to tualized resources? | services and appli           | cations that typically run on a  |
| 20. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them asresources to users.  a. Real b. Cloud C. Virtual   | dd 19.W          | Cloud Computing  Soft Computing  Parallel Computing  Thich one of the following of the Hadoop  Intranet  Web Applications | options can be consi                   |                              | ndra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy, 620,012 |
|  | 20. Cl resour    | loud computing is a kind of ces and represents them as Real   | of abstraction whichresources t        | h is based on the roo users. | notion of combining physical   |
|  | d.               |   |  |                              |  |



- a. Web Service
- b. Softwares
- c. All of the mentioned

d. Internet

22. Which one of the following cloud concepts is related to sharing and pooling the resources?

- a. Polymorphism
- b. Virtualization
  - c. Abstraction
  - d. None of the mentioned

23. Which one of the following statements is not true?

- a. The popularization of the Internet actually enabled most cloud computing systems.
- b. Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.

./ Soft computing addresses a real paradigm in the way in which the system is deployed.

d. All of the mentioned

24. Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?

a. Computing

b. Model

c. Software

d. All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 012.

25. Which of the following is an essential concept related to Cloud?

a. Reliability

b Abstraction

c. Productivity

d. All of the mentioned



Name of the Student:

Year/Sem

**AU Register Number:** 

## Value Added Course on

#### "Multimedia design"

## **MULTIPLE CHOICE QUESTIONS (25X4 = 100 Marks)**

| 1. | What        | is    | multim           | edia?    |
|----|-------------|-------|------------------|----------|
|    | 7 7 AR 44 4 | 20.00 | AND DO IL AVAILA | ACCREC & |

- A. moving images and text
- B. images and audio
- C. integration of still and moving images, text, and sounds by means of computer technology
- D. programs that combine text and images on a television screen

### 2. What are presentations?

- A. a sequence of slides that usually incorporate text, sound, graphics, and animation
- B. a speech
- C. information presented using more text than graphics and animation
- D. a television interview or news report

#### 3. What does SSL stand for?

- A. saving sharing and limits
- B. safe secured and locked
- C. secure socket limbs
- D. secure socket layers

#### 4. Action script is

- A. object oriented programming
- B. 3d animation software
- C. dtp software
- D. a font style

#### 5. Every web page has its own

- A. database connection
- B. personal search engine
- C. animation scheme
- D. url

Dr. G. Balakrishnan, M.E., Ph.D.,



#### 6. What does ISP stand for?

- international service protocol A.
- B. internal services and protection
- C. internet service provider
- D. internet search program

#### 7. E-commerce is:

- business-to-business transactions and business-to consumer transactions A.
- B. getting money from your computer online
- C. selling your home on the internet
- D. a revolution in business practices

#### 8. What is telemedicine?

- something that gives people access to the expertise of specialties in urban hospitals through the use of A. multimedia and computer networks
- a computer game that allows people to pretend to be doctors B.
- C. a database that lists and explains all known medicines
- D. an advertisement for the local grocery store\s pharmacy

#### 9. What war inspired the United States to form a new way of communicating, now commonly known as the Internet?

- A. the gulf war
- B. the Vietnam war
- C. world war ii
- D. the cold war

#### 10. How does multimedia help school-age children?

- A. it replaces direct textbook reading
- it helps students learn in new and stimulating ways and allows them to apply their knowledge creatively B.
- C. it allows students to control all their learning
- D. it replaces teacher lectures

#### 11. What is Tim Berners Lee

- Α. World wide web
- B. Arpanet
- C. Hypertext editing system
- D. Personal computer

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

- 19. Which of the following file formats is NOT a piece of film:
- A. Avi
- B. Mov
- C. Mpeg
- D. Png
- 20. Which of the following file types is NOT an audio file:
- A. Mpeg
- B. Way
- C. mp3
- D. Wma
- 21. To bring external files into both Flash and Premiere, you would perform this function:
- A. Import
- B. Insert
- C. Locate
- D. Capture
- 22. The color inside a shape is the fill. The line around that fill is called the:
- A. Stroke
- B. Outline
- C. vector line
- D. out layer
- 23. What is compression
- A. reduces the picture clarity for storage
- B. reduces the number of bytes required to store
- C. reduces the resolution
- D. non of the above
- 24. Interactive controlled structure
- A. navigation controlled by the code
- B. navigation controlled by the user
- C. navigation controlled by timer
- D. none of the above
- 25. What is Contrast
- A. balancing pixels
- B. dealing ith colour
- C. scaling files
- D. Masking

0

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



## Value Added Course

"Multimedia design"

## ANSWER KEY

| 1 | c | 6  | С | 11 | a | 16 | d | 21 | a |
|---|---|----|---|----|---|----|---|----|---|
| 2 | a | 7  | а | 12 | С | 17 | С | 22 | a |
| 3 | d | 8  | a | 13 | b | 18 | b | 23 | ь |
| 4 | a | 9  | c | 14 | c | 19 | c | 24 | b |
| 5 | d | 10 | b | 15 | a | 20 | d | 25 | ь |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Name of the Student: Visalini. P

Year/Sem I / I

AU Register Number: 811219205021

## Value Added Course on

"Multimedia design"

#### **MULTIPLE CHOICE QUESTIONS (25X4 = 100 Marks)**



| 1.  | What      | is   | multim       | edia? |
|-----|-----------|------|--------------|-------|
| 2.0 | 1 1 11000 | 1123 | HIL CALCALLE | COTH! |

moving images and text

- B. images and audio
- C. integration of still and moving images, text, and sounds by means of computer technology
- D. programs that combine text and images on a television screen

## 2. What are presentations?

- A. a sequence of slides that usually incorporate text, sound, graphics, and animation
- B. a speech
- C. information presented using more text than graphics and animation
- D. a television interview or news report

## 3. What does SSL stand for?

- A. saving sharing and limits
- B. safe secured and locked
- Secure socket limbs secure socket layers

#### 4. Action script is

A.) object oriented programming

- B. 3d animation software
- C. dtp software
- D. a font style

5. Every web page has its own

- A. database connection
- B. personal search engine

(C) animation scheme

D. url

~

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



#### 6. What does ISP stand for?

- A. international service protocol
- B. internal services and protection
- (C.) internet service provider
- D. internet search program

#### 7. E-commerce is:

business-to-business transactions and business-to consumer transactions

- B. getting money from your computer online
- C. selling your home on the internet
- D. a revolution in business practices

#### 8. What is telemedicine?

something that gives people access to the expertise of specialties in urban hospitals through the use of multimedia and computer networks

- B. a computer game that allows people to pretend to be doctors
- C. a database that lists and explains all known medicines
- D. an advertisement for the local grocery store\s pharmacy

## 9. What war inspired the United States to form a new way of communicating, now commonly known as the Internet?

A.) the gulf war

B. the Vietnam war

C. world war ii

D. the cold war

#### 10. How does multimedia help school-age children?

A it replaces direct textbook reading

B. it helps students learn in new and stimulating ways and allows them to apply their knowledge creatively

C. it allows students to control all their learning

D. it replaces teacher lectures

#### 11. What is Tim Berners Lee

A.) World wide web

B. Arpanet

C. Hypertext editing system

D. Personal computer

Dr. G. Balakrishnan, M.E., Ph.D.,



72 dpi

300 dpi 100 dpi

250 dpi

B.

C.

D.

12.

Which of the following File Formats is a lossless File Format that was intended to replace GIF by

|            | adding extra features?   |
|------------|--|
| A.         | Jpeg   |
| B.         | Gif  |
| (C.)       | Png  |
| D.         | Tiff   |
| ٥.         |  |
| 13.        | A linear presentation plays without user intervention, but this type of presentation DOES require user |
| 10.        | intervention to function:  |
| A.         | Intermediary   |
| (B.)       | Interactive  |
| C.         | Inter playable   |
| D.         | Interlinear  |
| D.         | intermedi  |
| 14.        | What is a vector graphic:  |
| A.         | an image comprised of colored pixels   |
|            | an image drawn on paper and scanned  |
| B.<br>C.   |  |
| ( /        | an image comprised by mathematical formulae  |
| D.         | an image where all the lines are curved  |
| 15.        | What is a bitmap:  |
| A.         | an image comprised of colored pixels   |
| B.         |  |
|            | an image drawn on paper and scanned  |
| C.         | an image comprised by mathematical formulae  |
| D.         | an image where all the lines are curved  |
| 16.        | Computer monitors display in this color format:  |
| 4.5        |  |
| A.         | Rgb  |
| B.         | Ryb  |
| C.<br>D.   | Cmyk   |
| ט.)        | Cmbk   |
| 17.        | Color printing is done in this format.   |
|            | Color printing is done in this format:   |
| A.         | Rgb  |
| B.<br>C.   | Ryb  |
| <u>(.)</u> | Cmyk   |
| <b>D</b> . | Cmbk   |
|            |  |
| 18.        | What is the ideal resolution of an image for Printing  |
| TO.        | What is the ineal resolution of an image for a liming  |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



D.

Masking

| 19.<br>A.<br>B.<br>C.<br>D. | Which of the following file formats is NOT a piece of film: Avi Mov Mpeg Png  |
|-----------------------------|---|
| 20.<br>A.<br>B.<br>C.<br>D. | Which of the following file types is NOT an audio file: Mpeg Wav mp3 Wma  |
| 21.<br>A.<br>B.<br>C.<br>D. | To bring external files into both Flash and Premiere, you would perform this function: Import Insert Locate Capture                                   |
| 22.<br>A.<br>B.<br>C.<br>D. | The color inside a shape is the fill. The line around that fill is called the: Stroke Outline vector line out layer                                   |
| 23.<br>A.<br>B.<br>C.       | What is compression reduces the picture clarity for storage reduces the number of bytes required to store reduces the resolution non of the above     |
| 24.<br>3.<br>3.<br>0.       | Interactive controlled structure navigation controlled by the code navigation controlled by the user navigation controlled by timer none of the above |
| 5.                          | What is Contrast balancing pixels dealing ith colour scaling files  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Name of the Student:

Year/Sem:

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

**AU Register Number:** 

idea.A.internal sources

Value Added Course on "Special Training on Digital Marketing"

| MCO OUESTIONS (25X4 = 100 Marks)   |  |
|--|--|
| 1. The customer review of a product on an E-Commerce we a) Awareness about the brand b) Awareness about the product c) Experience the product d) Both a&c  2. The main objective of digital marketing is tobuying relevant keyword and Paid search marketing is about bidding a) True b) False c) May be d) May not  3. People who had earlier visited the site isCustomising a a) Search retargeting b) Contextual marketing c) Remarketing d) None | levant   |
| 4. This aims at influencing users who have begun their researchease, butnot needed that they have visited a brand site.  | rch on search  |
| a)Contextual marketing b)Search retargeting c)Remarketing d)Both a&b 5. Which platform can be used by advertisers and purchase a across adexchanges?   | nd impressions   |
| a) demand-side platform c)Ad network d)None 6. Real-time bidding is a form of programmatic buying a)True b)False c) Partially True d) None 7. Which capabilities are offered by Web Content Manageme a)Centralized version control b)Simplification thro c)Integration with enterprise applications d)all 8. Which design approaches help in building sites that are optivariousscreen sizes? a)Mobile optimized design                              | ugh templates  |
| a)Mobile optimized design b)Responsive web design c)Progressive enhancement d)Adaptive web design 9. Site designing for mobile is very similar to the web a)True b)False c)May be d)May not  |  |
| 10. Profits related to a new product in its introductory stage of to newproduct  | f profit related   |
| A. negative B. positive C. higher D. declining 11classified by decoding, feedback, encoding and resp together incommunication process.   | oonse are  |
| A. communication tools C. communication parties D. communication function 12. Product development comes from source of   | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering |

B.external sources

| C.product extension  | D.both a and b      |                           |                |
|--|---------------------|---------------------------|----------------|
| 13. Which way of consumers   | s feel or perceive  | towards an actual pro     | duct or        |
| potentialmarket offering   |                     |                           | duct of        |
| A.sales concept  | B.product image:    | S                         |                |
| C.product idea   | D.customer mana     | agement                   |                |
| 14.which Products like as  | "VHS tapes"         | -0                        |                |
| A.product classes  | B branding          |                           |                |
| C.product forms  | D.product percen    | tion                      |                |
| 16behavior Highly i  | nvolved consume     | er buying behavior wh     | ile            |
| perceivingsignificant diffe  | erences between l   | brands                    |                |
| A. complex behavior  | B.variety s         | seeking behavior          |                |
| C.dissonance reducing beha   | evior D.habitual    | behavior                  |                |
| 17Procedure in ma  | rketing which con   | nsists of enlisting opini | on leaders as  |
| DIALIGATIDASSAGOTS" IS C   | alled               |                           |                |
| A. Leading B. online   | C.Buz D.n           | one of the above          |                |
| 18. customer is, If custo  | mer's expectatio    | ns and products perfo     | rmance         |
| matches  |                     |                           |                |
| A.satisfied B.dissatisfied   | C.delighted         | D.none of these           |                |
| 19. Stages such as conviction  | on stage, liking st | age, preference stage,    | and actual     |
| purchasestage are all of the   | e process called    |                           |                |
| A. channeling C.channel designing  | B.buyer rea         | adiness                   |                |
| C.channel designing  | D.strategic         |                           |                |
| 20. When the new develope  | ed product conce    | pt is tested, the next im | mediate step   |
| 15 10  |                     |                           | -              |
| A.market strategy C.intermediaries   | 3.a testing technic | <u>l</u> ue               |                |
| C.intermediaries   | Logistic network    |                           |                |
| 21communication   classified as  | process, receiver   | and sender are            |                |
|  | C . 1               |                           |                |
| A.functions B.partie   | es C.tools          | D.channels                |                |
| 22. stage in which purchase called   | intention is tran   | sformed in to purchas     | e decision is  |
|  |                     |                           |                |
| A.need recognition B.inform  | nation search       | C.purchase decision       | D.both b and c |
| 23.media and message are B.channels  | considered as       | In communication pro      |                |
| 24. 'Maslow's hierarchy of   |                     | C.functions               | D.parties      |
| A.physiological  | B.self-actua        | 1*                        |                |
| C.esteem needs   | D.all of abo        |                           |                |
|  | for a possible mus  | ve                        |                |
| 25is classified An idea A.product idea B   | .product image      | uuct that company will    | offer          |
| C.customer management D  | none of the above   | 9                         |                |
| The state of the s | mone of the above   | C                         | 0              |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Name of the Student: Mungan. N

AU Register Number: 8(12/863/03/3

Year/Sem: IMBA

Value Added Course on "Special Training on Digital Marketing"

|   | MCOTOTOS TORS 1/5X4 = 100 Marks  |
|---|--|
|   | 1. The customer review of a product on an E-Commerce website.  a) Awareness about the brand b) Awareness about the product c) Experience the product c) Experience the product d) Both a&c principal  2. The main objective of digital marketing is to buying relevant dra Ganesan College of Engineering keyword and Paid search marketing is about bidding lig Valley, Madurai Main Road light rue b) False c) May be d) May not Manikandam, Trichy-620 012.  3. People who had earlier visited the site is Customising advertisement to. b) Contextual marketing c) Remarketing d) None |
| 5 | 4. This aims at influencing users who have begun their research on search engines, butnot needed that they have visited a brand site.  |
| 7 | a)Contextual marketing b)Search retargeting c)Remarketing d)Both a&b 5. Which platform can be used by advertisers and purchase ad impressions across adexchanges?  |
|   | a) demand-side platform c)Ad network d)None 6. Real-time bidding is a form of programmatic buying True b)False c) Partially True d) None 7. Which capabilities are offered by Web Content Management Tools?  |
|   | c)Integration with enterprise applications d)all  8. Which design approaches help in building sites that are optimized for variousscreen sizes?  |
|   | a)Mobile optimized design b)Responsive web design c)Progressive enhancement d)Adaptive web design 9. Site designing for mobile is very similar to the web a)True D)False c)May be d)May not 10.Profits related to a new product in its introductory stage of profit related  |
|   | A negative B. positive C. higher D. declining  11classified by decoding, feedback, encoding and response are together incommunication process.  Communication tools B. communication channels C. communication parties D. communication function   |
|   | 12. Product development comes from source of idea. A. internal sources  B. external sources  |



| C.product extension          | Dooth a and b                                  |   |
|------------------------------|--|---|
|                              | feel or perceive towards an actual produc      | et or                                       |
| potentialmarket offering     | •  |   |
| A.sales concept              | B.product images                               |   |
| C.product idea               | Deustomer management                           |   |
| 14.which Products like as    |  | Dr. G. balakrishnan, M.E., Ph.D., Principal |
| A.product classes            | Bibranding                                     | Principal                                   |
| C.product forms              | D.product perception                           | Indra Ganesan College of Engineering        |
| 16behavior Highly i          | nvolved consumer buying behavior while         | IG Valley, Madurai Main Road                |
| perceivingsignificant diffe  |  | Manikandam, Trichy-620 012.                 |
|                              | B.variety seeking behavior                     |   |
|                              | avior D.habitual behavior                      |   |
| 17Procedure in ma            | rketing which consists of enlisting opinion    | leaders as                                  |
| 🧻 "brandambassadors" is c    |  |   |
| _                            | C.Buz D.none of the above                      |   |
| 18. customer is, If custo    | omer's expectations and products perform       | ance  |
| matches                      |  |   |
|                              | C.delighted D.none of these                    |   |
| 19. Stages such as convicti  | on stage, liking stage, preference stage, an   | d actual                                    |
| purchasestage are all of the |  |   |
| A. channeling                | Bebuyer readiness                              |   |
| C.channel designing          | •  |   |
|                              | ed product concept is tested, the next imm     | ediate step                                 |
| is to                        |  |   |
| (A)market strategy           | B.a testing technique                          |   |
| C.intermediaries             |  |   |
|                              | process, receiver and sender are               |   |
| classified as                |  |   |
| A.functions Bparti           | es C.tools D.channels                          |   |
| 22. stage in which purchas   | e intention is transformed in to purchase o    | lecision is                                 |
| called                       |  |   |
| A.need recognition Binfor    | *  | D.both b and c                              |
| 23.media and message are     | 1  |   |
| Bchannels                    |  | D.parties                                   |
| 24. Maslow's hierarchy of    |  |   |
| A.physiological              | B.self-actualization                           |   |
| C.esteem needs               | Dall of above                                  |   |
|                              | ea for a possible product that company will of | fer   |
|                              | B.product image                                |   |
| C.customer management (      | D:hone of the above                            |   |

Name of the Student: Saba P

idea. A. internal sources

20/25 Year/Sem: I MBB

AU Register Number: 811218-63104/

Value Added Course on "Special Training on Digital Marketing"

| of the state of th |
|--|
| MCO OUESTIONS (25X4 = 100 Marks)   |
| 1. The customer review of a product on an E-Commerce website  a) Awareness about the brand b) Awareness about the product c) Experience the product c) Experience the product d) Both a&c Indra Ganesan College of Engineering Lig Valley, Madurai Main Road Manikandam, Trichy-620 012.  The main objective of digital marketing is about bidding April True b) False c) May be d) May not 3. People who had earlier visited the site isCustomising advertisement to. a) Search retargeting b) Contextual marketing c) Remarketing d) None  |
| 4. This aims at influencing users who have begun their research on search engines, butnot needed that they have visited a brand site.  |
| a)Contextual marketing b)Search retargeting c)Remarketing d)Both a&b 5. Which platform can be used by advertisers and purchase ad impressions across adexchanges?  |
| demand-side platform c)Ad network d)None  6. Real-time bidding is a form of programmatic buying True b)False c) Partially True d) None  7. Which capabilities are offered by Web Content Management Tools? Centralized version control b)Simplification through templates c)Integration with enterprise applications d)all  8. Which design approaches help in building sites that are optimized for variousscreen sizes? a)Mobile optimized design c)Progressive enhancement d)Adaptive web design  |
| 9. Site designing for mobile is very similar to the web a) True (b) False c) May be d) May not 10. Profits related to a new product in its introductory stage of profit related to newproduct A. negative (B) positive C. higher D. declining 11classified by decoding, feedback, encoding and response are  |
| together incommunication process.  Communication tools B. communication channels C. communication parties D. communication function  12. Product development comes from source of  |

B.external sources

| C.product extension               | Aboth a and b  | -4             |
|-----------------------------------|--|----------------|
| 13. Which way of consumer         | rs feel or perceive towards an actual produc   | et or          |
| notontialmarket offering          |  |                |
| A.sales concept                   | B.product images Coustomer management  |                |
| C.product idea                    | Deustomer management   |                |
| at 14. which Products like a      | s "VHS tapes"  |                |
| A.product classes  Oproduct forms | B.branding   |                |
| Oproduct forms                    | D.product perception   |                |
| 16 hehavior Highly                | Involved consumer paying senation  |                |
| nomonivingsignificant dil         | fferences between branus   |                |
| Manual or hohovior                | B variety seeking deliavior  |                |
| January Land                      | dervice D habitual negavior  | Loodows as     |
| 17. Procedure in n                | narketing which consists of endsting opinion   | i leaucis as   |
|                                   | 00 00  |                |
| T I'm D online                    | Cara Dinone of the above   | m 0 M 0 O      |
| 18. customer is, If cu            | stomer's expectations and products perform   | nance          |
| Anlana                            |  |                |
| A.satisfied B.dissatisfi          | ied C.delighted D.none of these  | nd actual      |
| 10 Stages such as convi           | ction stage, liking stage, preference stage, a   | nu actuai      |
| purchasestage are all of          | f the process called   |                |
| A. channeling                     | B)buyer readiness  |                |
| C.channel designing               | B) buyer readiness D. strategic  | modiate sten   |
| 20. When the new devel            | oped product concept is tested, the next im  | inculate stop  |
| is to                             | m of the land  |                |
| A.market strategy                 | B.a testing technique  |                |
| C.intermediaries                  | B.a testing technique  (E) logistic network  |                |
| 21communicati                     | ion process, receiver and sender are   |                |
| classified as                     | D channels   |                |
| A.functions (B.)                  | parties C.tools D.channels   | e decision is  |
| 22. stage in which purc           | hase intention is transformed in to purchas  | C (ICCIDIO)    |
| called                            | nformation search (Epurchase decision  | D.both b and c |
| A.need recognition B.i            | LILOXIII CONTRACTOR CO |                |
| 23.media and message              | C.functions  | D.parties      |
| (B) channels                      |  |                |
| 24. Maslow's hierarch             | y of needs   |                |
| A.physiological                   | B.self-actualization   |                |
| C.esteem needs                    | Only of above  | offer          |
|                                   | n idea for a possible product that company wil   |                |
| A.product idea                    | B.product image  | 14.            |
| C.customer managemen              | nt Dhone of the above  | JA             |
|                                   |  |                |

Dr. G. Balakrishnan, Principal
Indra Ganesan College of Engineer
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Name of the Student: Gromatlei. M

Year/Sem: IMBA

AU Register Number:81/2/86316/3

Value Added Course on "Special Training on Digital Marketing"

#### MCO QUESTIONS (25X4 = 100 Marks) 1. The customer review of a product on an E-Commerce website. a)Awareness about the brand (b) Awareness about the product c)Experience the product d)Both a&c 2. The main objective of digital marketing is to \_\_\_buying relevan Dr. G. Balakrishnan, M.E., Ph.D., keyword and Paid search marketing is about bidding Principal b)False Indra Ganesan College of Engineering c)May be 3. People who had earlier visited the site is Customising advertisement to Manikandam, Trichy-620 012. d)May not (a) Search retargeting b)Contextual marketing c)Remarketing d)None 4. This aims at influencing users who have begun their research on search engines, butnot needed that they have visited a brand site. a)Contextual marketing b)Search retargeting Remarketing d)Both a&b 5. Which platform can be used by advertisers and purchase ad impressions across adexchanges? a) demand-side platform b)supply side platform Ad network d)None 6. Real-time bidding is a form of programmatic buying Mrue b)False c) Partially True d) None 7. Which capabilities are offered by Web Content Management Tools? (a) Centralized version control b)Simplification through templates c)Integration with enterprise applications d)all 8. Which design approaches help in building sites that are optimized for variousscreen sizes? a)Mobile optimized design b)Responsive web design c)Progressive enhancement (d)Adaptive web design 9. Site designing for mobile is very similar to the web a)True (b) False c)May be d)May not 10. Profits related to a new product in its introductory stage of profit related to newproduct A. negative (B) positive C. higher D. declining 11. \_\_\_\_classified by decoding, feedback, encoding and response are together incommunication process. A. communication tools

(B.) communication channels

B.external sources

C. communication parties D. communication function 12. Product development comes from \_\_\_ source of

idea.A.internal sources

| C.product extension Dboth a and                        |  |
|--|--|
| 13. Which way of consumers feel or percentage          | eive towards an actual product or          |
| potentialmarket offering                               | ns.  |
| A.sales concept C.product idea B.product in Customer i | nages                                      |
| C.product idea D.customer i                            | nanagement                                 |
| 14.which Products like as "VHS tapes                   | ??   |
| A.product classes C.product forms D.product pe         |  |
| C.product forms D.product pe                           | rception                                   |
| 16behavior Highly involved cons                        | sumer buying behavior while                |
| perceivingsignificant differences between              | een brands                                 |
| A. complex behavior B.vari                             |  |
| Cdissonance reducing behavior D.hab                    | itual behavior                             |
| 17Procedure in marketing whic                          | h consists of enlisting opinion leaders as |
| "brandambassadors" is called                           |  |
| A. Leading B.online (C)Buz                             | D.none of the above                        |
| 18. customer is, If customer's expec                   | tations and products performance           |
| matches  |  |
| Asatisfied B.dissatisfied C.deli                       | ghted D.none of these                      |
| 19. Stages such as conviction stage, liki              | ng stage, preference stage, and actual     |
| purchasestage are all of the process ca                | lled                                       |
| A. channeling C. channel designing D. stra             | er readiness                               |
| C.channel designing D.stra                             | tegic                                      |
| 20. When the new developed product co                  | oncept is tested, the next immediate step  |
| is to  |  |
| Amarket strategy B.a testing te                        | chnique                                    |
| C.intermediaries E.logistic net                        | work                                       |
| 21communication process, rece                          | eiver and sender are                       |
| classified as  |  |
| A.functions Bearties C.tool                            | S D.channels                               |
| 22. stage in which purchase intention is               | transformed in to purchase decision is     |
| called   |  |
| A.need recognition B.information search                | O.*  |
| 23.media and message are considered a                  |  |
| Bichannels   | C.functions D.parties                      |
| 24. Maslow's hierarchy of needs                        |  |
|  | actualization                              |
|  | fabove                                     |
| 25is classified An idea for a possib                   |  |
| A.product idea B.product im                            |  |
| C.customer management /D/none of the                   | ahove                                      |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

(2019-20 Odd)



# Value Added Course on "Special Training on Digital Marketing"

#### ANSWER KEY

| 1 | В | 6  | A | 11 | Α | 16 | A | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | A | 7  | A | 12 | D | 17 | C | 22 | C |
| 3 | Α | 8  | D | 13 | D | 18 | A | 23 | A |
| 4 | С | 9  | В | 14 | В | 19 | В | 24 | D |
| 5 | В | 10 | В | 15 | В | 20 | Α | 25 | D |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



GOLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

# **Department of Civil Engineering**

# Academic Year 2019-2020 - Even Semester

Name of the Student:

NYear/Sem:

**AU Register Number:** 

Value Added Course on "Safety in construction"

|    | MCQ QUESTIONS   | (25X4 = 100 Mar                                   | ks)  |
|----|---|---|--|
| 1. | While using ladder one should not lean sid  | leways more than                                  |  |
|    | a) 40 cms   | c) 30 cms   | Dr. G. Balakrishnan, M.E., Ph.D.,  |
|    | b) 50 cms   | d) 45 cms   | Principal Indra Ganesan College of Engineering   |
| 2. | Which is the most accepted method of avoi<br>a) Wearing safety equipment  |   | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012.<br>rith highly skilled working |
|    | b) Doing things in one s own way  | d) Observing sat<br>job, machine and              | fety precautions related to<br>I working place   |
| 3. | For repair works at high level of multi stori a) As it is more stable   | ed buildings needle<br>c) As it will not<br>level | e scaffolding is preferred<br>obstruct traffic at ground                                   |
|    | b) As it looks better   | d) All of the abo                                 | ve   |
| 4. | Which cost is not include in direct accidents a) Medical care expenses for injured  | c) Decrease in me                                 | oral which affects   |
|    | b) Replacement cost of equipment and material damaged in accidents  | d) Fees for legal                                 | counsel  |
| á  | Sinking fund is  a) The fund for rebuilding a structure when its economic life is over  b) Raised to meet maintenance costs | authorities by t<br>d) A part of the m            | oney kept in reserve for tional structures and   |
| i  | Pre-tender stage requires  a) Acquisition of land  b) Selection of site   | c) Finalization of d) All the above               | alignment of work  |

Department of Civil Engineering an, M.E., Ph.D.,

|     | Department of C   | ivii Engineering <sub>Dr. G. Balakrishnan, M.E., T.</sub>   |
|-----|---|---|
|     | Academic Year 2019-2  | Principal <b>020 – Even Semester</b> Indra Ganesan College of Engineer  |
| 7.  | Select the correct statement.  a) A critical path always begins at the very first event  b) A critical path always terminates at the last event                                 | IG Valley, Madurai Main Road Manikandam, Trichy-620 012.  |
| 8.  | Free float for any activity is defined as the a) Its earliest finish time and earliest start time for its successor activity  | c) Its latest finish time and earliest start time for its successor activity  |
|     | b) Its latest start time and earliest start time  | d) Its earliest finish time and latest start time for its successor activity  |
| 9.  | In CPM analysis, a) Emphasis is given to activities b) Uncertainties are not allowed  | c) Activities are represented by arrows d) All the above  |
| 10. | If <i>TL</i> is the latest allowable event occurrence a) <i>LST - EST</i> b) <i>LFT - EFT</i>   | c time, total activity slack(s), is equal to c) TL - EFT d) All the above   |
| 11. | The constraints in case of resource smoother a) Resources   | c) Both resources and project duration time   |
| 12. | b) Project duration time  The time which results in the least possible ca) Normal time b) Slow time   | d) None of the above construction cost of an activity, is known as c) Crash time d) Standard time                               |
| 13. | Various activities of a project, are shown on a) Vertical lines b) Horizontal lines   | bar charts by c) Dots d) Crosses  |
|     | Total float for any activity is defined as the d a) Its latest finish time and earliest start time for its successor activity b) Its latest start time and earliest finish time | c) Its latest start time and earliest start time d) Its earliest finish time and earliest start time for its successor activity |

15. Pick up the correct statement from the following:

a) Earliest expected time is denoted by  $T_E$ c) Contractual obligation time is denoted by Ts



Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

#### **Department of Civil Engineering**

#### Academic Year 2019-2020 - Even Semester

b) Latest occurrence time is denoted by  $T_L$ 

d) All the above

16. Residential buildings are treated as

- a) Light construction
- b) Heavy construction

- c) Industrial construction
- d) Private construction

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

17. Pick up the PERT event from the following:

- a) Digging of foundation started
- b) Digging of foundation completed
- c) Laying of concrete started
- d) All the above

18. The process of incorporating changes and rescheduling or replanning is called

a) Resource levelling

c) Updating

b) Resource smoothening

d) Critical path scheduling

19. Pick up the correct statement from the following:

- a) Programme Evaluation and Review Technique, is event oriented
- b) Programme Evaluation and Review Technique is not event oriented
- c) Critical Path Method is event oriented
- d) Critical Path Method is not event oriented

20. Time and progress chart of a construction, is also known as

a) Bar chart

c) Modified Mile stone chart

b) Gantt chart

d) All the above

21. The technique for establishing and maintaining priorities among the various jobs of a project, is known as

- a) Event flow scheduling technique
- c) Slotting technique for scheduling
- b) Critical ratio scheduling
- d) Short interval scheduling

22. A CPM family includes

- a) CPA (Critical Path Analysis)
- b) CPP (Critical Path Plotted)
- c) MCE (Minimum Cost Expenditure)
- d) All the above

23. Critical path

- a) Is always longest
- b) Is always shortest

- c) May be longest
- d) May be shortest



#### **Department of Civil Engineering**

#### Academic Year 2019-2020 - Even Semester

24. If a is the optimistic time, b is the pessimistic time and m is most likely time of an activity, the expected time of the activity, is

a) 
$$(a + m + b)/6$$

b) 
$$(a + 2m + b)/6$$

c) 
$$(a + 4m + b)/6$$

d) 
$$(a + 5m + b)/6$$

- 25. The most suitable type of equipment for compaction of cohesive soils is
  - a) Smooth-wheeled rollers

c) Sheep foot rollers

b) Vibratory rollers

d) Tampers

0

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-628 912.

VAC Coordinator

HoD/CIVIL



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

# **Department of Civil Engineering**

### Academic Year 2019-2020 - Even Semester

Value Added Course on "Safety in construction"

|   |   | REPOR | T ON V | ALUE AI | DED C | OURSE |   |    |   |
|---|---|-------|--------|---------|-------|-------|---|----|---|
| 1 | b | 6     | d      | 11      | ь     | 16    | a | 21 | b |
| 2 | d | 7     | d      | 12      | b     | 17    | d | 22 | d |
| 3 | d | 8     | a      | 13      | ъ     | 18    | С | 23 | a |
| 4 | С | 9     | đ      | 14      | b     | 19    | a | 24 | С |
| 5 | a | 10    | d      | 15      | d     | 20    | d | 25 | С |

**ANSWER KEY** 

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

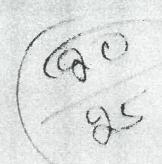
VAC Coordinator

HoD/CIVIL

| BALATI.  1) b) 150 cms  2. d) observing. Batery precautions related to 811214103 3. d) All of the above  4. c) Decrease in moral which affects operationary  4. c) Decrease in moral which affects operationary  5. a) The fund for rebuilding a structure when  6. a) The fund for rebuilding a structure when | INL TO THE REPORT OF THE PERSON OF THE PERSO |
|---|--|
| 1) b) 150 cms  2. d) Observing. Bafety praemions related to 811214103 3 id - Cm  3. d) An of the above  4. c) Decease in moral which affects praemitivity  4. c) Decease in moral which affects praemitivity  4. c) The fund for rebuilding a strutture when  | INL TO THE REPORT OF THE PERSON OF THE PERSO |
| The fund for rebnilding a strutture   | rts  |
| The fund for rebnilding a strutture   | rts  |
| The fund for rebnilding a strutture   | rts  |
|   |  |
|   | tall   |
| 6. d) An of the above is the one for each which is  |  |
| economic by: 16  6. d) Au of the above  6. d) Au of the above  1 d) Chitical activity. is the one for each est of and  1 d) Chitical activity. Is the one for each est of and  1 d) Au of the above  1 Au of the above  | t time   |
| 8. a) Its carrier arrivery  |  |
| 9. d) An of the about   |  |
| 9. d) An of the above 10. d) An of the above unation time of  | <b>1</b>   |
| ( ) Proj "·   |  |
| h) 8 bow Till   | 4  |
| ) Horizontal unes C   |  |
| (13 b) to latest start time and lastest finish time   |  |
| H. b)   |  |
| (5. d) Au of the above  Dr. G. Balakrishnan, M.E., Ph.D.,   |  |
| Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.   |  |
| Manikandam, Trichy-620 012.   |  |
| 18. c) Updating X  18. c) Updating X  19. a) events oriented evaluation and series tracking ul  |  |
| 20. 4) Au of the above.   | s na   |

| Foother's Signoture   | the standard of the standard o |
|---|--|
| 21. b) Cairinal dans Othechning X<br>22. d) An tru above  |  |
| Scheduling X  | and when the control of the same and and a page of the page of the set of the |
| 32. a) An tru above   |  |
|   |  |
| 24 °) (1+4m+b) 1b<br>27 °) Shap fool Rower  | ·  |
| () (1 +11113) 18/   | PAN .  |
| In I shap fool rours  |  |
|   | resolution price realization production of the second seco |
|   | wildow, someonophysis - April - Karin - Karin - April - Karin - April - Karin - April  |
| Accepted to a little and the little | terpingshamiliahagagaangka man nau y uran di panan nau y uran di panan nau nau di panan nau nau nau nau nau na   |
|   |  |
|   | p ( years) a gamanagaragaga ann go agus a tha ann ann ann ann ann ann ann ann ann a  |
|   | n the discontaction of explain the second state of the second stat |
|   | and a subject to the superference of the subject to the superference of the subject to the subje |
|   |  |
|   |  |
|   | ang kang pananang palah ang kang kang kang kang kang kang kang   |
|   | kanan ngani sa saga salunina sa kanan ng kanan ng sagan sagan sagan sagan sagan sagan sagan sagan sagan sagan<br>Sagan ngani sa  |
|   | antensoris   |
|   |  |
|   | the digital in the state of the |
|   | apon-aphiliphrisis (philiphrisis of the second philiphrisis of a philiphrisis of a philiphrisis of the second of t |
|   | ر و سر و در و مورد و در و در و در و در و در و  |
|   | مقد للذي يوملونهم بمدعود أن أود المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة   |
|   |  |
|   | and the profession of the prof |
|   | aring and subject to the property and a state of the second of the secon |
|   | мерина при на нарадина предоставления предоста   |
|   | aring a special aring a specia |
| Dr. G. Balakrishnan, M.E., Ph.D.,   |  |
| Principal Principal   | ukya, pin  |
| Indra Ganesan College of Engineering  | unang unan hala meng a sawiisi gensionenenen seit tutur er system debissi  |
| IG Valley, Madurai Main Road  | , agailige and stage and common common and applicable of the the   |
| Manikandam, Trichy-628 012.   |  |
|   |  |
|   | nykanskem familjagina rejisst gav fy medisakira kere e pasigi unkan kurjan.  |
|   | na spiratelika i hiji sakan sepuna Masa. Masa manjingina kan kudikan kan kudikan san   |
|   |  |
|   | and the contract of the second |
| out after   | and the second second  |

Date



1. b, 50cm

3.d. All of the olipse

4. C. Decuease in monal which affects productivity

5. a. The fund for see building a structure when its economics who is economics

6, d, all the above

7 d) willied activity is the one for which treefloat as zeros

3. a, 91s can lest linish time and embed stant time for it

9, dy all the alone .

10, dg all the above X

11 b) both resource and project distration.

12, b) slow time

13 by Harizontal lines

14, b) Its latest stant time and partiest fruit time

15, d) all the about

16,0) light construction -

17, d) All the above.

18, () updating

19, a) possogramme evaluation from seven is count original

20, d) All the alone

21, by stolling technique for scholding /

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

23,0) & always longest.

24, C) Ca+4m+b)/6

25, C) Sheep foot stollers.

0

Probably of the

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



811216103003 M. Havi Havian Lth year Civil

1. b). 50 cms

2. d) Observing safaty Precautions related to job, machine and working place.

3. d). All of the above

4. c). Decrease in moral which affects poroductively

5. a). The fund for rebuilding a structure when its economic life is over.

6. d). All the above

7.d). Contical activity is the one for which free float is Low.

8. a) Its earliest finish time and earliest stort

9.0). All the above.

10.d). All the above

11.6). Project diviation time.

12. b). Slow time

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

13. b) Howgontal lines

14 b) Its latest start time and earliest finish

15.0). All the above

16.0%. Light construction

17.0). All the above

18. c). Updating

19. a). Porogonamme evaluation & rievieur Technique is not event oriented.

20.1). All the above

21. b). Contical ratio Scheoluling.

22.d) All the above

23.9). Is always longest

24.0). (a+4m+b)/6

25.c). Sheep foot nolleys.

(D):-

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Name of the Student:

Year/Sem:

**AU Register Number:** 

#### Volva Added Comme

| value Added Course  |
|---|
| "AGUMENTED REALITY AND VIRTUAL REALITY""  |
| MCO QUESTIONS (25X1 = 100 Marks)  |
| 1. A field of technology that deals with a combination of real world and the data generated from computer.  a) ML  b) AI  c) AR  d) IoT |
| 2. AR is interactive in real-time. a) True b) False   |
| 3. Technologies that completely involve a user inside a synthetic environment. a) AR b) VR c) AI d) ML                                  |
| 4. Technologies that allow the user to see the real world, with virtual objects composited in the real world.  a) AR                    |
| b) VR<br>c) AI<br>d) SR   |
| is a display device, worn on head as a part of helmet that has a small display optic.  a) HD b) MD c) HMD d) ARD                        |
| 6. Wearable computing device in the form of computerized eyeglasses. a) HMD b) Helmets  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

- c) Smart Glasses
- d) VR Glasses
- 7. A tracking based on geo-location information.
- a) Location based
- b) Markerless
- c) Marker based
- d) GPS
- 8. SLAM stands for?
- a) Simultaneous localization and mapping
- b) System localization and mapping
- c) Simultaneous localization and maintenance
- d) System localization and maintenance
- 9. A technique that enables light field which is generally the product of a light source scattered off objects.
- a) AES
- b) Holography
- c) Cryptography
- d) Gyrography
- 10. A \_\_\_\_ can be recorded using a normal light source.
- a) Holograph
- b) Photography
- c) Holography
- d) Photograph
- 11. HMD stands for?
- a) Head Mounted Display
- b) Head Masked Display
- c) Head Made Display
- d) Head Mounted Detection
- 12. In terms of image analysis, it is important to attend to primary level signs in visual codes, most obviously for examples of still photography.
- a) True
- b) False

13. \_\_\_\_ keeps track of position.

- a) Motion analyzers
- b) Motion Trackers
- c) HMD
- d) SMD

(D.:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

#### 14. BOOM stands for?

- a) Binocular Omni-Orientation Manager
- b) Binary Omni-Orientation Manager
- c) Binocular Omni-Orientation Monitor
- d) Binary Omni-Orientation Monitor
- 15. A term for Illusion of immersion by projecting stereo images on the walls and floor of a room.
- a) CAVE
- b) BOOM
- c) GUI
- d) HMD
- 16. It is a mediated environment which creates the sensation in a user of being present in a (physical) surrounding.
- a) WWW
- b) VR
- c) HMD
- d) GUI
- 17. A term to describe the extent to which a user can modify form and content of a mediated environment.
- a) Vividness
- b) Richness
- c) Interactivity
- d) Mapping
- 18. A type of VR environment in which subjects are visually isolated from the real environment.
- a) Immersive
- b) Semi immersive
- c) Non immersive
- d) Augmented
- 19. In this type of VR environment, the three-dimensional scene is considered as a part of the physical environment.
- a) Immersive
- b) Semi immersive
- c) Non immersive
- d) Augmented
- 20. In this type of VR environment, the subjects can perform both in the real and virtual environment.
- a) Immersive
- b) Semi immersive

Dr. G. Balakrishnan, M.E., Ph.D., Principal

- c) Non immersive
- d) Augmented

### 21. Separation of user logical memory and physical memory is

- a) Memory control
- b) Memory management
- c) Memory sharing
- d) Virtual memory

#### 22. Virtual Memory can be implemented via

- a) Demand Paging
- b) Logical paging
- c) Structural way
- d) Simple division

#### 23. COW stands for?

- a) Control over write
- b) Convert over write
- c) Count over write
- d) Copy over write

#### 24. LRU stands for?

- a) Least Recently used
- b) Less Recently used
- c) Least recurrently used
- d) Least Randomly used

#### 25. What is the correct syntax of echo statement in virutal?

echo

echo()

echo = ()

Both A. and B.

100:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



### AGUMENTED REALITY AND VIRTUAL REALITY

#### ANSWER KEY

| 1 | Α | 6  | В | 11 | C | 16 | C | 21 | A |
|---|---|----|---|----|---|----|---|----|---|
| 2 | В | 7  | A | 12 | В | 17 | В | 22 | C |
| 3 | A | 8  | D | 13 | A | 18 | Α | 23 | C |
| 4 | C | 9  | В | 14 | В | 19 | A | 24 | В |
| 5 | В | 10 | À | 15 | C | 20 | Č | 25 | В |

(D:

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Aartin

Almi

21.A) memory

III/CSE

0) False

A)AR

2 () Structured way

CIAI

23 c) count oner write

B) MD

24, B) tes owen my wed

6. D) VR Glasses 25. B) Echo 1)

A) Simultaneous Localization and Mapping

R) 8ystem localization and mapping

9. B) Holography

10 A) Holography

1. () Head made Display.

12, A) True

13. B) Motoin Trackers.

14 B) Binary oruni - Orientation manager.

C) G152

16. c) 4mg

17 B) Richmess.

18. B) Sem immerined

19. A) Immorsine

20. C) Non Immusia.

Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

811218104014 TICSE 1) A)ML C. structure way C. Count overwnike Lew recently used. cho () () HMD b) Hermets a) Location bases. a) System Localization and maintenance Cryptography istograph Head Made Display motion analyzers binary umni - orientation manager aul 15 HMD Richness Immersive Immersive Indra Ganesan College of Engineering IG Valley, Madurai Main Road non-Imensive Manikandam, Trichy-620 012.

Memory Control?

Mcq

Madhavan s





Medurai Main Road (NH-45B), Manitendern, Truchirappall - 620 012
Approved by AICTE, NowDellin & Affiliated to Anna University, Chemist
NAAC Accredited, 2(F) Status Eastinated by UCC

Name of the Student:

Year/Sem:

AU Register Number:

#### Value Added Course

# "Smart Grid Technology"

# Multiple Choice Questions (25X1 = 25 Marks)

|    |    | Withthir Chairs                         |                |   |
|----|----|---|----------------|---|
| 1. |    | Power quality monitoring and an         | alysis in the  | smart grid is done using                      |
|    |    | a)past time data                        | b) utilizes re | al - time data                                |
|    |    | c) uses off line data                   | d) does not    | need any data                                 |
| 2. |    | One Nation, One Grid, One               | •              |   |
|    | a) | Current b) Frequency                    | c) Phase       | d) Voltage                                    |
| 3. |    | Among the following, what is no         | t the function | of Smart grid.                                |
|    | a) | Interoperability is achieved smooth     | hly among the  | grid  |
|    | b) | Real time monitoring of Grid cond       | litions        |   |
|    | c) | Solve automatically grid disturban      | ices           |   |
|    | d) | Plug and Play ability to connect no     |                |   |
| 4. |    | In relation to Smart home and b         | uilding Autor  | nation, BAC is                                |
|    | a) | Building Automation and control         | systems        |   |
|    | b) | Bus Architecture for Communicat         | ion            |   |
|    | c) | Basic Automation and Communic           | ation          |   |
|    | d) | Broad Area Communication                |                | · ·   |
| 5. |    | The provide interoperability standards. | s frameworl    | k and roadmap for smart grid                  |
|    | a) | National Institute of Smart Grid        |                |   |
|    | b) | National Institute of Micro grid        |                | (A.)  |
|    | c) | National Institute of Standard and      | l Technology   | 1 Ost   |
|    | d) | National Institute of Electrical an     | d Electronic A | dvancements Dr. G. Balakrishnan, M.E., Ph.D., |





Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Medirei Mein Roed (NH-458), Manikandem, Tiruchrappail - 620 012
Approved by AICTE, NewDolld & Affiliated to Anna University, Chemisis
NAAC Accredited, 2(F) State Institution by UGC

| 6.  |    | Following are some Smart Home and Building Automation standards  |  |  |  |  |  |
|-----|----|--|--|--|--|--|--|
|     | a) | SPBRG, PS, PIC18, ATMEL, SCADA, PLC, ES  |  |  |  |  |  |
|     | b) | ZHA, BACnet, KNX, LonWorks, OneNet, X10, INSTEON   |  |  |  |  |  |
|     | c) | Zigbee, LAN, MAN, WAN, HAN, DG, COAXLine   |  |  |  |  |  |
|     | d) | TCP/IP, IITC, COXZa, COHA, multiSIM, Netauto, I-on   |  |  |  |  |  |
| 7.  |    | Following is NOT a type of IED.  |  |  |  |  |  |
|     | a) | Protective Relaying Device b) Circuit Breaker Controllers  |  |  |  |  |  |
|     | c) | Capacitor Bank Switches d) microcontroller based embedded systems  |  |  |  |  |  |
| 8.  |    | WAMS is  |  |  |  |  |  |
|     | a) | Wide area Automation and Management System   |  |  |  |  |  |
|     | b) | Wide Area Measurement System   |  |  |  |  |  |
|     | c) | Wide Area Management System  |  |  |  |  |  |
|     | d) | West Automatic Management System   |  |  |  |  |  |
| 9.  |    | Recloser Controller and voltage regulators are   |  |  |  |  |  |
|     | a) | LEDs b) MCDs c) IEDs d) FASs   |  |  |  |  |  |
| 10. |    | Pumped Hydro power stations are looked as  |  |  |  |  |  |
|     | a) | Frequency regulators for the grid c) bulk power suppliers  |  |  |  |  |  |
|     | b) | voltage regulators for the grid d) conventional generating stations  |  |  |  |  |  |
| 11. |    | Pumped Hydro power stations are treated as   |  |  |  |  |  |
|     | a) | reserve power capacities c) bulk power suppliers   |  |  |  |  |  |
|     | b) | voltage regulators for the grid d) conventional generating stations  |  |  |  |  |  |
| 12. |    | is the condition in which a distributed generator (DG) continues to power a location even though electrical grid power is no longer present. |  |  |  |  |  |
|     | a) | Islanding c) Microgriding  |  |  |  |  |  |
|     | b) | Anti-islanding d) Brown out  |  |  |  |  |  |
|     |    | Dr. G. Balakrishnan, M.E., Ph.D.,  |  |  |  |  |  |





Medurei Main Road (NH-45B), Manitendam, Truchtappali - 620 012
Appared by AICTE, NewDelth & Affiliated to Amas University, Chemist NAAC Accredited, 2(F) Status Esstitution by UGC

| - State of the Sta |            |  |   |
|--|------------|--|---|
|  |            | and the second in the second i | rid connected operation of the AC Microgrid?  |
| 13.  |            |  |   |
|  |            | frequency  | el generator regulating the voltage and   |
|  | b)         | Battery charging, PV at off MPPT, frequency  | diesel generator regulating the voltage and   |
|  | c)         | Battery charging, PV at MPPT, diesel g   | enerator off  |
|  | d)         | diesel generator regulating the voltage  | and frequency   |
| 14.  |            | VAR compensators are treated as  |   |
|  | a)         | simply as active power controller  |   |
|  | b)         | simply as reactive power controller  |   |
|  | c)         | enhancing the power flow controller  |   |
|  | d)         |  |   |
| 15.  |            | For power quality and reliability, fa-   |   |
|  | a)         |  |   |
|  | b)         |  |   |
|  | c)         |  |   |
|  | d)         |  |   |
| 16.  |            | powered with a certain degree of   | to tolerate a fault and continue generating power quality even when dealing with some |
|  |            | typical faults such as dip voltage.  |   |
|  | a)         |  | e) Resilient system   |
|  | b)         | Flexible AC transmission system  | l) outage management system   |
| 17.  |            | Isolation transformers, voltage regu   |   |
|  | a)         | ) Power conditioning equipment's   | c) simply as equipment's serving their  |
|  |            |  | purpose   |
|  | <b>L</b> ) | disturbing network power quality   | d) simply as source of power  |

b) disturbing network power quality

equipment's

Dr. G. Balaknishnan, M.E., Ph.D., Principal Indra Ganesan College of Engine IG Valley, Madurai Main Roan Manikandam, Trichy-620 01



Madural Main Road (NH-458), Manikandam, Tiruchirappail - 620 012
Approved by AICTE, NewDelin & Affiliated to Anna University, Cheracal
NAAC Accredited, 2(F) Scatus Exattention by UGC

|    | The main responsibility of Application layer in To                  | CP/IP protocol architecture is  |
|----|---|---|
| a) | routing packets from source to destination across mu                | ltiple layers   |
| b) | allow users to access network resources                             |   |
| c) | transmits raw bits as signals between nodes                         |   |
| d) | messages  |   |
|    |   |   |
| a) | encapsulation of IP packets coming from the interpretation          | ternet layer into frames, frame   |
| b) | allow users to access network resources                             |   |
| c) | transmits raw bits as signals between nodes                         |   |
| d) | messages  |   |
|    | The Smart Grid domains and sub domains use v communication channels | ariety of private and non-private   |
| a) | Wired c) wired and wirele   | SS  |
| -  | d) ontical and coax   | ial   |
| ,  |   | оwп   |
| a) | Dogotiva n  |   |
| ,  |   |   |
| a) |   |   |
|    |   | A.  |
|    |   | Dr. G. Balakrishnan, M.E., Ph.D.  |
|    |   | Principal   |
| ,  |   | Indra Ganesan College of Careering IG Valley, Madurai Mai: 150ad  |
|    | NAT Your was  | Manikandam, Trichy-620 932,   |
|    | b) c) d) d) b) a) a b c c d   | a) routing packets from source to destination across much allow users to access network resources c) transmits raw bits as signals between nodes d) provides reliable and application independent promessages  The main responsibility of Network layer in TCP a) encapsulation of IP packets coming from the interpretation b) allow users to access network resources c) transmits raw bits as signals between nodes d) provides reliable and application independent promessages  The Smart Grid domains and sub domains use vector communication channels a) Wired c) wired and wireles d) optical and coax In DC voltage bus the following parameter is kn a) DC power b) Voltage c) Reactive profile form of the SCADA is a) Supervisory control and digital acquisition b) Supervisory control and data acquisition c) Supplementary control and digital acquisition d) Supplementary control and digital acquisition Renewable energy is generated from |

d) does not require any source

b) Artificial resources





Madural Main Road (NH-45B), Manikandam, Tiruchirappall - 620 012
Appayred by AICTE, NewDelhi & Affiliated to Anna University, Chemical NAAC Accredited, 2(F) Status Enstitution by UGC

### 24. Power quality is the ability of a system

- a) to operate causing disturbance or damage to loads and components
- b) to operate without causing disturbance or damage to loads and components
- c) to lose synchronism of the synchronous machines
- d) None of the above

# 25. Which statement from the following is not true for OMS,

- a) Prediction of location of transformer, fused, recloser or breaker that opened upon failure.
- b) Prioritizing restoration efforts and managing resources based upon criteria such as locations of emergency facilities, size of outages, and duration of outages.
- Providing information on extent of outages and number of customers impacted to management, media and regulators.
- d) It is a networking system using mesh topology to interact with consumers and utilities.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal





Medural Main Road (NH-45B), Manikandam, Truchirappail - 620 012

Approved by ALCTE, NewDelint & Affiliated to Anna University, Chemnal

NAAC Accredited, 2(F) Staras Institution by UGC

#### Value Added Course

#### "Smart Grid Technology"

#### ANSWER KEY

| 1 | d | 6  | b | 11 | b | 16 | a | 21 | d |
|---|---|----|---|----|---|----|---|----|---|
| 2 | С | 7  | b | 12 | ь | 17 | b | 22 | a |
| 3 | c | 8  | c | 13 | đ | 18 | ь | 23 | a |
| 4 | a | 9  | b | 14 | c | 19 | a | 24 | c |
| 5 | С | 10 | а | 15 | b | 20 | b | 25 | c |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

# 24 7 32 Du

# Smart Gold Technology

- 1) (d) does not need any data
- 2) (c) Phase
- 3) (1) Solve automatically grid disturbances
- 4) (a) Building Automation and control Systems
- 5) (a) National Institute of Small grid
- 6) (a) SPBBRG, PS, PICIB, ATMEL, SCADA,
  PLC, ES.
- 7) (b) Circuit Breaker controllers
- 8) (4) Wide Area Management Sylbems
- 9) (b) MCDs

(0) a) bulk power suppliers:

Dr. G. Balakrishnan, M.E., Ph.D.,

- 11) (b) Voltage regulators for the great
- (1) (b) Anti- Wooding
- 13) (d) dicited generalor resulting the Vollague and Frequency.

generoubton

- 16) (a) solf-healing System
- (7) (b) disturbing network power quality equipments. I d
- (8) (b) allow users to access network resources
- 19) 16 allow users to access notwork resources.
- 20) (b) Wireless,
- 21) (d) Frequency
- 21) (a) Supervisorey central and digital acquisition
- 23) (a) Natural resources
- 24) (c) to lose synchronism of the Synchronous machines
- 25) (d) It is a notworking system stast using Dr. G. Balakrishnan, M.E., Ph.D. Phers mosh bopology to interact with and utilities.

| 11.7.2020 | Smart Grud Technology  |
|-----------|--|
|           | S. Klouthana   |
| ,         | Tu /VI   |
| \_        | d) closs not need any data (19)  |
|           | c) Phase   |
| 3.        | c) some automatically grid disturbances  |
|           | d) Broad Area communication  |
|           | a) National Tastitute of Smort grid.   |
|           | b) ZHA, BA Cnot, KNX, Lon works, one net, X10, Insteam   |
| ٦.        | b) concent Breaker controllers   |
| 8.        | c) wide trea management System.  Dr. G. Balakrishnan, M.E., Ph.D.,                                     |
| 9.        | Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Inchy-620 012. |
| 10.       | a) Frequency regulators for the grid   |
| 11-       | b) voltage regulators for the grid   |
| 12.       | b) Anti - islanding  |
|           |  |

| 13. | Whise generator regulating the Voltage and frequency                              |
|-----|---|
| 12. | c) enhancing the Pouser Slow controller   |
|     | 6) are the requirements of conventional generation                                |
| 16. | b) Resilient System X   |
| 17. | d) Simply as Source of Power  |
| 18. | 6) allow users to access naturally resources                                      |
| 19. | b) allow users to access network resources  |
| 20, | Dr. G. Balakrishnan, M.E., Ph.D.,  Principal Indra Ganesan College of Engineering |
| 21  | Manikangam, Trichy-620 012.   |
| 22  | a) Supervisory control and digital acquisition                                    |
| 23  | a) Natural resources  |
|     | - 1 to lose Synchronism of the Synchronous machines                               |
|     | that opened upon failure.   |
|     |   |



"Internet of Things"

Name of the Student:

Year/Sem: **AU Register Number:** MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks) 1. What is the full form of IoT? b) Incorporate of Things a) Internet of Technology d) Incorporate of Technology c) Internet of Things b) Network of virtual objects 2. What is IoT? a) Network of physical objects embedded with sensors d) Network of sensors c) Network of objects in the ring structure 3. Who coined the term "Internet of Things" b) JohnWright a) KevinAston d) GeorgeGarton c) EdwardJamieson 4. When was the actual term "Internet of Things" coined? b) 1999 a) 1998 d) 2002 Dr. G. Balakrishnan, M.E., Ph.D., c) 2000 Principal Indra Ganesan College of Engineering 5. Which of the following is not an IoT device? IG Valley, Madurai Main Road b) Laptop Manikandam, Trichy-620 012. a) Table d) Tablet c) Arduino 6. Which of the following is false about IoT devices? b) IoT devices need a) IoT devices use the internet microcontrollers for collecting and sharing d) IoT devices are completely c) IoT devices use wireless safe technology Which of the following is not an IoT platform?

a) Amazon Web Services

c) Sales force

b) Microsoft Azure

d) Flipkart



#### "Internet of Things"

| 8.   | Which of the following is not an application of label a) BMP280   | loT? b) Smart home  |
|------|---|---|
|      | c) Smartcity  | d) Self-driven cars   |
| 9. V | Which of the following is not a fundamental compa <ul> <li>a) Sensors</li> <li>c) User interface</li> </ul>                                   | onent of an IoT system? b) Connectivity and data processing d) Transformer                    |
| 10.  | What is the full form of IIOT?  a) Index Internet of Things  c) Industrial Internet of Things   | <ul><li>b) Incorporate Internet of<br/>Things</li><li>d) Intense Internet of Things</li></ul> |
| 11.  | Which layer is used for wireless connection in Io a) Application layer  | T devices? b) Network layer   |
|      | c) Data link layer  | d) Transport layer  |
| 12.  | Which of the following is false about the IoT cor a) A light sensor (photo resistor) is an analog sensor c) A push button is a digital sensor | b) A microphone is a digital sensor d) A keyboard is a digital sensor                         |
| 13.  | Which of the following is used to captured at a fr devices?   |   |
|      | a) Sensors  | b) Actuators  |
|      | c) Microprocessors  | d) Microcontrollers   |
| 14.  | Which of the following command is used to trigg a) Hello  | er the Amazon echo IOT device? b) Suri  |
|      | c) Alexa  | d) Hev  |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



|           | "Internet of Th   | nings"  |
|-----------|---|---|
| 15.       | Which of the following is false about the N  a) It is a self-configuring  network  a) It deepn't have any   | MANET IoT network? b) It has allow data rate d) Power is readily available                            |
|           | c) It doesn't have any encryption   | for complex security  |
| 16.       | Which of the following is not a sensor in Io a) BMP280  | oT?<br>b) DHT11   |
|           | c) Photo resistor   | d) LED  |
| 17.       | Which of the following is not an actuator in a) Stepper motor   | n IoT?<br>b) A fan  |
|           | c) An LED   | d) Arduino  |
| 18.       | <ul> <li>What is the use of PWM signals in IoT dev</li> <li>a) They are used by sensors to have analog input</li> <li>c) They are used by actuators to have analog input</li> </ul> | b) They are used by sensors to have digital input d) They are used by actuators to have digital input |
| 19.       | Which of the following is used to reprogram   | m a Boot loader in IoT devices?   |
|           | a) VHDL programming   | b) IDE  |
|           | c) ICSE   | d) MANET  |
| 20.<br>a) | Which of the following is true about Arduin They are open-source software   | o IoT devices? b) They can only read analog inputs  |
| c)        | They have their own operating systems   | d) They don't have pre programmed firmware e)   |
|           | How many number of elements in the Oper 3 elements  | b) 7 elements  Dr. G. Balakrishnan, M.E., Ph.D.,  Principal Indra Ganesan College of Engineering      |

d) 6 elements

c) 8 elements

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



"Internet of Things"

|       | Y PD A . I C                                    |      |                                   |
|-------|---|------|-----------------------------------|
|       | IoT-A stands for                                |      |                                   |
| a)    | Internet of Things Area                         | b)   | Industrial of things Architecture |
| c)    | Internet of Things Address                      | d)   | Internet of Things Architecture   |
| 23.   | Which of the following is an not a feature of   | the  | Raspberry PI modelB IoT device?   |
| a)    | It has 256 MBSDRAM                              | b)   | It has a single USB connector     |
| c)    | It has its own operating system                 | d)   | It has an Ethernet port           |
|       |   | e)   |                                   |
| 24. \ | Which of the following processor is used in the | ne R | RaspberryPI 3 IoT device?         |
| a)    | Broadcom BCM2711                                | b)   | BroadcomBCM2837                   |
| c)    | Broadcom BCM2838                                | d)   | Intel8085                         |
|       |   |      |                                   |
|       |   |      |                                   |

b) Wire

d) ArduinoJson

25. Which library is used to access I2C in Arduino IoT devices?

a) EEPROM c) DHT11

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



"Internet of Things"

|   |   |    | 9 | Answ | er Key |    |   |    | **** |
|---|---|----|---|------|--------|----|---|----|------|
| 1 | c | 6  | d | 11   | c      | 16 | đ | 21 | b    |
| 2 | a | 7  | d | 12   | b      | 17 | d | 22 | d    |
| 3 | a | 8  | а | 13   | a      | 18 | c | 23 | a    |
| 4 | ь | 9  | d | 14   | C      | 19 | c | 24 | b    |
| 5 | a | 10 | c | 15   | d      | 20 | a | 25 | b    |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

value Added course the student: - Kasawa morth. Myear / som :- I ROGISTOS Number - 811818 106012 [0 Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

value Added Course Name of the student: - Rups mohammal Balakrishnan, W.E., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. 0 Name of the Student:

Year/Sem:

**AU Register Number:** 

### Value Added Course

|    | "External Aerodyna  | amics Simulations"  |
|----|---|---|
|    | MCQ QUESTIONS   | (25X4 = 100 Marks)  |
| 1. | For which of these Mach numbers is flow of a) M < 1                           | considered to be hypersonic?  |
|    | b) M > 5  | d) 1 < M < 5  |
| 2. | How is the shock layer in case of hypersonia) Thick                           | c flow? c) Non existent   |
|    | b) Thin.  | d) Increases with increasing Mach number  |
| 3. | In hypersonic flow, the shock waves often raa) True                           | nerge with the viscous boundary layer. c) False   |
|    | b) Sketches.  | d) Origin.  |
| 4. | How is the shock over a blunt body at hypers a) Conical.                      | sonic speed? c) Diamond.  |
|    | b) Curved   | d) Oblique.   |
|    | What is the entropy gradient at the nose region  a) Very high                 | on of a slender body at hypersonic flow? c) Negligible                                      |
| 1  | b) Very low   | d) None of the above.   |
|    | What is viscous dissipation?  a) Loss of kinetic energy due to viscous effect | c) Increase in kinetic energy due to increase in temperature  Dr. G. Balakrishnan M.F. Rich |

-1

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

| b) Loss | of potential | energy | due to | o viscous |
|---------|--------------|--------|--------|-----------|
| effect  |              |        |        |           |

|     | effect  | d) Frictional drag  |
|-----|---|---|
| 7.  | How does viscous dissipation affect temper a) Increases                                   | ature inside the boundary layer? e) No change                             |
|     | b) Decreases  | d) First increases, then decreases  |
| 8.  | become independent of Mach number?  | uantities such as coefficient of pressure, lift                           |
|     | a) Subsonic   | c) Transonic  |
|     | b) Hypersonic   | d) Supersonic   |
| 9.  | Which boundary condition applied at the sur equations?                                    | rface to non dimensionlize the governing                                  |
|     | a) $V.n = 0$  | c) V - n = 0  |
|     | b) $V.(V \times n) = 0$   | $d) V \times (V \times n) = 0$  |
| 10. | Boundary condition $V.n = 0$ is applied at the equations when fluid is being transferred. | surface to non dimensionlize the governing                                |
|     | a) True   | c) False  |
|     | b) Can't predict  | d) None of the above  |
| 11, | Mach number independence for conical cylin compared to the sphere.                        | nder is achieved at a lower Mach number                                   |
|     | a) False  | c) True   |
|     | b) Can't predict  | d) None of the above  |
| 12. | Which of these does not result in two or mora) Streamlines are geometrically similar      | e flows being dynamically similar? c) The shape of the blunt body is same |
|     | b) Length of the body is same   | d) Non dimensional parameters remain same                                 |
|     |   | William Balakeshing Jane  |

13. Why is hypersonic similarity parameter essential?

krishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 13. Why is hypersonic similarity parameter e  | essential?   |
|---|--|
| a) Supersonic flow over wedges  | c) Hypersonic flow over cone                         |
| b) Hypersonic flow over flat plate  | d) Hypersonic flow over slender bodies               |
| 14. Two bodies holding hypersonic similarity and M∞τ to be same.                    | at small angle of attack need the values of $\gamma$ |
| a) M∞τ  | c) True.   |
| b) False  | d) M∞γ   |
| <ol> <li>Hypersonic similarity is applicable for onl</li> <li>No change.</li> </ol> | y irrotational flow? c) False                        |
| b) True.  | d) Dissimilar.                                       |
| 16. For which range of values is the hypersor bodies?                               | nic similarity rule valid for very slender           |
| a) $K = 0.5$ to infinity.   | c) $K > 1.5$ .                                       |
| b) 0.5 < K < 1.5.   | d) 2 < K < 1000.                                     |
| 17. At higher temperatures, the assumption of a a) True                             | a calorically perfect gas is valid. c) False         |
| b) invalid  | d) No changes  |
| 18. What is specific heat a function of at high to                                  | emperatures?   |
| a) Time.  | c) Entropy.  |
| b) Density.   | d) Temperature.                                      |
| 19. At high temperatures, what does dissociation                                    | n of molecule mean?                                  |
| a) Atoms break away from molecular structure  | c) Protons and neutrons break away                   |
| b) Electrons break away from the atom   | d) Electrons jump to the higher energy state         |
| Dr. G. Balakrishnan, M.E., Ph.D., Principal   | State  |
| Indra Ganesan College of Engineering IG Valley, Madurai Main Road                   |  |
| Manikandam Trichy 620 022   | ·  |

Manikandam, Trichy-620 012.

| 20. | How many thermal degrees of freedom is the translation energy? | ere for a diatomic molecule having                     |
|-----|--|--|
|     | a) 3   | c) 5.  |
|     | b) 4.  | d) 6.  |
| 21. | How many degrees of freedom is there for a energy?             | CO2 molecule with rotational kinetic                   |
|     | a) 5   | c) 3   |
|     | b) 6   | d) 2   |
| 22. | For a single atom what is the total energy a s                 | um of?   |
|     | a) Translation and electronic energy                           | c) Translation and rotational energy.                  |
|     | b) Electrical and vibrational energy                           | d) Rotational, electronic and translation energy.      |
| 23. | What is a ground state?  |  |
|     | a) Energy when gas is at absolute zero                         | c) Energy when gas is at 273.15 K                      |
|     | b) State where energies are non – existent                     | d) State where only translation energy exists          |
| 24. | In a boson particle, how many elementary pa<br>a) Odd number   | articles are present inside a molecule? c) Even number |
|     | b) Zero  | d) Imaginary number                                    |
| 25. | What are the particles which obey Fermi – D                    | irac statistics called?                                |
|     | a) Fermions.   | c) Leptons.  |
|     | b) Bosons.   | d) Quarks.   |
|     | ·  | VAC Coordinator  |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madural Main Road

Manikandam, Trichy-620 012.



## **Value Added Course**

## "External Aerodynamics Simulations"

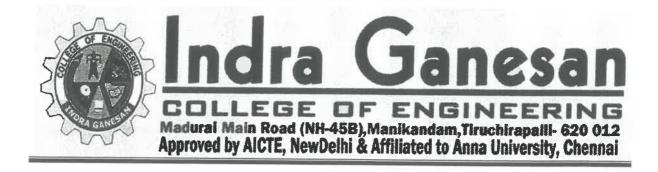
#### **ANSWER KEY**

| 1 | d | 6  | a | 11 | a | 16 | a | 21 | d |
|---|---|----|---|----|---|----|---|----|---|
| 2 | b | 7  | a | 12 | ъ | 17 | С | 22 | a |
| 3 | a | 8  | b | 13 | d | 18 | d | 23 | a |
| 4 | ь | 9  | a | 14 | b | 19 | a | 24 | С |
| 5 | a | 10 | С | 15 | c | 20 | a | 25 | a |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

VAC Coordinator



Name of the Student: Bala Subramani. v Year/Sem: 1 / meeh AU Register Number: 81121811400 Value Added Course "External Aerodynamics Simulations" MCQ QUESTIONS (25X4 = 100 Marks) 1. For which of these Mach numbers is flow considered to be hypersonic? a) M < 1c) M = 1 $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$ b) M > 52. How is the shock layer in case of hypersonic flow? a) Thick c) Non existent (b) Thin. d) Increases with increasing Mach number 3. In hypersonic flow, the shock waves often merge with the viscous boundary layer. (a) True c) False b) Sketches. d) Origin. 4. How is the shock over a blunt body at hypersonic speed? a) Conical. c) Diamond. b) Curved d) Oblique. 5. What is the entropy gradient at the nose region of a slender body at hypersonic flow? a) Very high c) Negligible b) Very low d) None of the above. 6. What is viscous dissipation? a) Loss of kinetic energy due to viscous c) Increase in kinetic energy due to increase

in temperature

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

effect

| b) Loss of potential energy due to viscous effect   | d) Frictional drag   |
|---|--|
| 7. How does viscous dissipation affect temper   | rature inside the boundary layer?  |
| a) Increases  | c) No change   |
| b) Decreases  | d) First increases, then decreases   |
| 8. At which flow regime does aerodynamic of become independent of Mach number?              | quantities such as coefficient of pressure, lift                           |
| a) Subsonic   | c) Transonic   |
| (b) Hypersonic  | d) Supersonic  |
| 9. Which boundary condition applied at the sur  | rface to non dimensionlize the governing                                   |
| equations? a) V.n = 0   |  |
| 2) 1.11   | c) $V - n = 0$<br>d) $V \times (V \times n) = 0$                           |
| b) $V.(V \times n) = 0$   | $d) V \times (V \times n) = 0$   |
| 10. Boundary condition V.n = 0 is applied at the equations when fluid is being transferred. | surface to non dimensionlize the governing                                 |
| a) True   | c) False   |
| b) Can't predict  | d) None of the above   |
| 11. Mach number independence for conical cylir compared to the sphere.                      | nder is achieved at a lower Mach number                                    |
|   | True 💢   |
| b) Can't predict  | d) None of the above   |
| 12. Which of these does not result in two or more a) Streamlines are geometrically similar  | e flows being dynamically similar?  c) The shape of the blunt body is same |
| b) Length of the body is same   | d) Non dimensional parameters remain                                       |
| -, or and oody to builte  | same   |
| 13. Why is hypersonic similarity parameter essen  | tial? Dr. G. Balakrishnan, M.E., Ph.D.,                                    |

| 13. Why is hypersonic similarity parameter   | essential?   |
|--|--|
| a) Supersonic flow over wedges   | c) Hypersonic flow over cone                           |
| b) Hypersonic flow over flat plate   | d) Hypersonic flow over slender bodies                 |
| 14. Two bodies holding hypersonic similaritand M∞τ to be same.                         | y at small angle of attack need the values of $\gamma$ |
| a) M∞τ   | c) True.   |
| b) False   | d) Motor   |
| <ul><li>15. Hypersonic similarity is applicable for on</li><li>a) No change.</li></ul> | nly irrotational flow? c) False                        |
| b) True.   | d) Dissimilar.   |
| 16. For which range of values is the hyperso bodies?                                   | onic similarity rule valid for very slender            |
| a) $K = 0.5$ to infinity.  | © K > 1.5.   |
| b) 0.5 < K < 1.5.  | d) 2 < K < 1000.                                       |
| 17. At higher temperatures, the assumption of a) True                                  | f a calorically perfect gas is valid. c) False         |
| b) invalid   | d) No changes  |
| 18. What is specific heat a function of at high  | temperatures?  |
| a) Time.   | c) Entropy.  |
| b) Density.  | d) Temperature.  |
| 19. At high temperatures, what does dissociati   | on of molecule mean?                                   |
| (a) Atoms break away from molecular structure  | c) Protons and neutrons break away                     |
| b) Electrons break away from the atom  | d) Electrons jump to the higher energy state           |
| Dr. G. Balakrishnan, M.E., Ph.D., Principal  |  |

| 20. How many thermal degrees of freedom is translation energy? | there for a diatomic molecule having                  |
|--|---|
| (a) 3  | c) 5.   |
| b) 4.  | d) 6.   |
| 21. How many degrees of freedom is there for energy?           | a CO2 molecule with rotational kinetic                |
| a) 5   | c) 3  |
| b) 6   | (a) <sub>2</sub>                                      |
| 22. For a single atom what is the total energy a               | sum of?   |
| a) Translation and electronic energy                           | c) Translation and rotational energy.                 |
| b) Electrical and vibrational energy                           | d) Rotational, electronic and translation energy.     |
| 23. What is a ground state?                                    |   |
| Energy when gas is at absolute zero                            | c) Energy when gas is at 273.15 K                     |
| b) State where energies are non – existent                     | d) State where only translation energy exists         |
| 24. In a boson particle, how many elementary p a) Odd number   | particles are present inside a molecule?  Even number |
| b) Zero  | d) Imaginary number                                   |
| 25. What are the particles which obey Fermi – l                | Dirac statistics called?                              |
| (a) Fermions.  | c) Leptons.   |
| b) Bosons.   | d) Quarks.  |
| Dr. G. Balakrishpan M.B  | VAC Coordinator                                       |

Name of the Student:

Year / Sem:

AU Register Number:

## Value Added Course

"Smart Computing Technologies in IOT"

#### MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- 1. Which memory storage is widely used in PCs and Embedded Systems?
  - a) EEPROM
  - b) Flash memory
  - c) SRAM
  - d) DRAM
- 2. How is the protection and security for an embedded system made?
  - a) Security chips
  - b) Memory disk security
  - c) IPR
  - d) OTP
- 3. Which of the following task swapping method is a better choice in the embedded systems design?
  - a) time slice
  - b) RMS
  - c) cooperative multitasking
  - d) pre-emptive
- 4. Which type of memory is suitable for low volume production of embedded systems?
  - a) Non-volatile
  - b) RAM
  - c) Volatile
  - d) ROM
- 5. Which activity is concerned with identifying the task at the final embedded systems?
  - a) scheduling
  - b) task-level concurrency management
  - c) high-level transformation
  - d) compilation
- 6. Which level simulates the algorithms that are used within the embedded systems?
- a) algorithmic level
- b) switch level
- c) gate level
- d) circuit level

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



| <ul> <li>13. What is the name of the Artificial Intelligence system develor</li> <li>a) program known as BACON</li> <li>b) system known as STUDENT</li> <li>c) program known as SHRDLU</li> <li>d) system known as SIMD</li> </ul>   | oped by Daniel Bobrow?          |
|--|---------------------------------|
| <ul> <li>14. What is the function of the system Student?</li> <li>a) program that can read algebra word problems only</li> <li>b) system which can solve algebra word problems but not re</li> <li>c) system which can read and solve algebra word problems</li> <li>d) None of the mentioned</li> </ul> | ad                              |
| <ul> <li>15. Which of the following is not an application of artificial intellig</li> <li>a) Face recognition system</li> <li>b) Chatbots</li> <li>c) LIDAR</li> <li>d) DBMS</li> </ul>  | gence?                          |
| <ul><li>16. Which of the following machine requires input from the humans</li><li>a) Actuators</li><li>b) Sensor</li><li>c) Agents</li><li>d) AI system</li></ul>  | s but can interpret the outputs |
| number of informed search method are there in Art b) 3 c) 2 d) 1   | ificial Intelligence.           |
| a) 3 proposition symbols b) 1 proposition symbols c) 2 proposition symbols d) No proposition symbols   |                                 |
| <ul> <li>19. The total number of logical symbols in AI are</li> <li>a) There are 3 logical symbols</li> <li>b) There are 5 logical symbols</li> <li>c) Number of logical symbols are based on the input</li> </ul>   | Dr. G. Balakrishnan, M.E., F    |

20. Which of the following are the approaches to Artificial Intelligence? Indra Ganesan College of Engineering

a) Applied approach

d) Logical symbols are not used

b) Strong approach

c) Weak approach

d) All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



- 21. Face Recognition system is based on which type of approach?
  - a) Weak AI approach
  - b) Applied AI approach
  - c) Cognitive AI approach
  - d) Strong AI approach
- 22. Which of the following is an advantage of artificial intelligence?
  - a) Reduces the time taken to solve the problem
  - b) Helps in providing security
  - c) Have the ability to think hence makes the work easier
  - d) All of the above
- 23. Which of the following can improve the performance of an AI agent?
  - a) Perceiving
  - b) Learning
  - c) Observing
  - d) All of the mentioned
- 24. Which of the following is/are the composition for AI agents?
  - a) Program only
  - b) Architecture only
  - c) Both Program and Architecture
  - d) None of the mentioned
- 25. On which of the following approach A basic line following robot is based?
  - a) Applied approach
  - b) Weak approach
  - c) Strong approach
  - d) Cognitive approach

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Value Added Course
"Smart Computing Technologies in IOT"

#### ANSWER KEY

| 1 | D | 6  | A | 11 | D | 16 | A | 21 | C |
|---|---|----|---|----|---|----|---|----|---|
| 2 | С | 7  | С | 12 | С | 17 | D | 22 | D |
| 3 | D | 8  | D | 13 | A | 18 | С | 23 | D |
| 4 | A | 9  | В | 14 | D | 19 | A | 24 | Α |
| 5 | В | 10 | C | 15 | C | 20 | С | 25 | A |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

VAC Coordinator



Name of the Student:

Year/Sem:

AU Register Number:

## Value Added Course

| "Recent development in nanotechnology"  |
|---|
| MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)  |
| 1. Nanomaterial's are the materials with at least one dimension measuring less than             |
| a) 1 nm   |
| b) 10 nm  |
| c) 100 nm   |
| d) 1000 nm  |
| 2. A material with one dimension in Nano range and the other two dimensions are large is called |
| a) Micro-material   |
| b) Quantum wire   |
| c) Quantum well   |
| d) Quantum dot  |
| 3. The colour of the nano gold particles is   |
| a) Yellow   |
| b) Orange   |
| c) Red  |
| d) Variable   |
| 4. The melting point of particles in nano form  |
| a) Increases  |
| b) Decreases  |
| c) Remains same   |
| d) Increases then decreases   |
| 5. The first talk about nano-technology was given by  |
| a) Albert Einstein  |
| b) Newton   |
| c) Gordon E. Moore  |
| d) Richard Feynman  |
| 6. Which of the processes of materials was not described as Nanotechnology?                     |

- a) Separation
- b) Creation
- c) Processing
- d) Consolidation

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 



## Indra Ganesan COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

| 7. The initial tools used to help launch the nanoscience revolution were               |
|--|
| a) Binoculars  |
| b) Microscope  |
| c) Scanning probe instruments  |
| d) Interferometer  |
|  |
|  |
| 8. The size of atoms is nearly   |
| a) 0.01 nm   |
| b) 0.1 nm  |
| c) 1 nm  |
| d) 10 nm   |
|  |
| 9. Which property of nanomaterials make them suitable to be used for elimination of    |
| pollutants?  |
| a) High purity   |
| b) Better thermal conductivity   |
| c) Enhanced chemical activity  |
| d) Small size  |
| d) Sman Size   |
| 10. Nano crystalline materials synthesised by sol-gel technique results in a foam like |
| structures called  |
| a) Gel   |
| b) Aerosol   |
| c) Foam  |
| d) Aerogel   |
|  |
| 11. Which nanomaterial is used for cutting tools?                                      |
| a) Fullerene   |
| b) Aerogel   |
| c) Tungsten Carbide  |
| d) Gold  |
|  |
| 12. A Carbon monoxide sensor made of zirconia uses which characteristic to detect any  |
| change?  |
| a) Capacitance   |
| b) Resistivity   |
| c) Activity  |
| d) Permeability  |
|  |
| 13. Which components of an automobile are envisioned to be coated with zirconia?       |
| a) Spark plugs   |
| b) Liners  |
| c) Tyres   |
| d) Brakes  |
| ay actions   |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

| 14. The main purpose of CNTs in fuel cells is  a) Production of energy b) Active medium c) Catalyst d) Storage |   |
|--|---|
| d) Storage   |   |
| 15. Zirconia is a hard, brittle  |   |
| a) Metal   |   |
| b) Non-metal   |   |
| c) Composite   |   |
| d) Ceramics  |   |
| 16. Nanoscale aluminium oxide increases the  | , M.E., Ph.D.,<br>Engineering<br>ain Road<br>620 012.                         |
| a) Conductivity  | P. P. S.                                  |
| b) Resistance  | E. E.   |
| c) Ductility   | hhatt, M.E., P<br>cipal<br>lege of Engine<br>urai Main Roac<br>Trichy-620 012 |
| d) Stability   | al a                                      |
|  |   |
| 17. Quantum dots can be used in  | G. Balakris<br>Prin<br>a Ganesan Col<br>IG Valley, Mad<br>Manikandam,         |
| a) Crystallography   | a la                                      |
| b) Optoelectronics   | G. Balak<br>a Ganesar<br>IG Valley,<br>Manikand                               |
| c) Mechanics   | Ga San Man  |
| d) Quantum physic  | Dr. G. Balak<br>Indra Ganesan<br>IG Valley, P                                 |
|  | A A   |
| 18. Who is generally credited with the first serious scientific claim that manu                                | facturing   |

- 18. Who is generally credited with the first serious scientific claim that manufacturing on the molecular or even the atomic scale was possible? The claim was made at California Technical Institute and was called, "There's Plenty of Room at the Bottom".
- a) Richard P. Feynman
- b) Ed Regis
- c) K. Eric Drexler
- d) Ralph Merkle
- 19. In 1986, Dr. K. Eric Drexler published a book for the layman that gave a wide overview of the potential applications of molecular nanotechnology in such areas as computing, medicine, space science, and the military. What was the name of this ground-breaking book?
- a) Smaller is Better
- b) Engines of Creation
- c) A Crowded Blueprint
- d) The Atomic Cookbook
- 20. A particular molecule of carbon made up of sixty carbon atoms has received some press as a structure that shows promise as a basic building block in the area of molecular manufacturing. What is the whimsical nontechnical name for these molecules?
- a) Fullerrods
- b) Nanonodes
- c) Buckyballs

#### d) Nanocubes

- 21. What is the general name for the class of structures made of rolled up carbon lattices?
- a) Nanorods
- b) Nanotubes
- c) Nanosheets
- d) Fullerrods
- 22. Nano, as a prefix, denotes what order of magnitude?
- a) 10^-6
- b) 10^-3
- c) 10^-12
- d) 10^-9
- 23. What is the term used in the field of nanotechnology to describe an as-yet theoretical device that "will be able to bond atoms together in virtually any stable pattern?"
- a) Stacker
- b) Replicator
- c) Assembler
- d) Constructor
- 24. In discussions of the potential of molecular nanotechnology, the possibility has been posited that badly or maliciously designed self-assembling structures could get out of control, and destroy or disassemble all structures they encounter in their blind quest to replicate. What is the term for such a structure or group of structures?
- a) Blue goo
- b) Green Goo
- c) Red goo
- d) Gray goo
- 25. Scientists discussing the potential of molecular nanotechnology realized the possibility that self-assembling molecular constructs could conceivably get out of control and destroy just about anything. This led to the concept that other constructs could be designed to neutralize and/or destroy the rogue substances before they got out of hand. By what colorful term are these theoretical "antibody" substances collectively known?
- a) Gray goo
- b) Green goo
- c) Red goo
- d) Blue goo

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



### Value Added Course

"Recent development in Nanotechnology"

#### **ANSWER KEY**

| 1 | С | 6  | ь | 11 | С | 16 | b | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | c | 7  | c | 12 | c | 17 | b | 22 | D |
| 3 | d | 8  | b | 13 | d | 18 | a | 23 | C |
| 4 | ь | 9  | c | 14 | d | 19 | b | 24 | D |
| 5 | d | 10 | d | 15 | d | 20 | c | 25 | D |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 612.

VAC Coordinator



Ravikumar. B Year/Sem: 🏋 Name of the Student: AU Register Number: 811219106005 Value Added Course "Recent development in nanotechnology" **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)** 1. Nanomaterial's are the materials with at least one dimension measuring less than a) 1 nm b) 10 nm © 100 nm d) 1000 nm 2. A material with one dimension in Nano range and the other two dimensions are large is called a) Micro-material (b) Quantum wire c) Quantum well d) Quantum dot 3. The colour of the nano gold particles is a) Yellow b) Orange c) Red d) Variable 4. The melting point of particles in nano form a) Increases b) Decreases c) Remains same d) Increases then decreases 5. The first talk about nano-technology was given by a) Albert Einstein b) Newton c) Gordon E. Moore

6. Which of the processes of materials was not described as Nanotechnology?

a) Separation

d) Richard Feynman

b) Creation

c) Processing

d) Consolidation



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

| 7. The initial tools used to help launch the na | noscience revolution were                               |
|---|---|
| a) Binoculars                                   |   |
| b) Microscope                                   |   |
| c) Scanning probe instruments                   |   |
| d) Interferometer                               |   |
| ,   |   |
| 8. The size of atoms is nearly                  |   |
| a) 0.01 nm                                      |   |
| (b))0.1 nm                                      |   |
| c) 1 nm   |   |
| d) 10 nm  |   |
| 9. Which property of nanomaterials make the     | em suitable to be used for elimination of               |
| pollutants?                                     |   |
| a) High purity                                  |   |
| b) Better thermal conductivity                  |   |
| c) Enhanced chemical activity                   |   |
| d) Small size                                   |   |
| 10. Nano crystalline materials synthesised by   | sol-gel technique results in a foam like                |
| structures called                               |   |
| a) Gel  |   |
| b) Aerosol<br>c) Foam                           |   |
| d) Aerogel                                      |   |
| d) Actoget                                      |   |
| 11. Which nanomaterial is used for cutting to   | ols?  |
| a) Fullerene                                    |   |
| b) Aerogel                                      |   |
| c) Tungsten Carbide                             |   |
| d)Gold  |   |
| 12. A Carbon monoxide sensor made of zircon     | nia uses which characteristic to detect any             |
| change?   |   |
| a) Capacitance                                  |   |
| b) Resistivity                                  |   |
| c) Activity d) Permeability                     |   |
| ,   |   |
| 13. Which components of an automobile are e     | nvisioned to be coated with zirconia?                   |
| a) Spark plugs                                  | (0/   |
| b) Liners                                       |   |
| c) Tyres  | ME Ph D.  |
| d) Brakes                                       | Dr. G. Balakrishnan, M.E., Ph.D.,                       |
|   | DeinClDAL   |
|   | Indra Ganesan Cellege of Engineering  Madurai Main Road |

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 14. The main purpose of CNTs in fuel cells isa) Production of energy   |  |
|--|--|
| b) Active medium c) Catalyst   |  |
| d) Storage   |  |
| 15. Zirconia is a hard, brittlea) Metal  |  |
| b) Non-metal c) Composite  |  |
| d) Ceramics  |  |
| 16. Nanoscale aluminium oxide increases thea) Conductivity   |  |
| b) Resistance  |  |
| c) Ductility d) Stability  | (D):   |
| 17. Quantum dots can be used in  | Dr. G. Balakrishnan, M.E., Ph.D.,              |
| a) Crystallography   | Principal Indra Ganesan College of Engineering |
| b) Optoelectronics c) Mechanics  | IG Valley, Madurai Main Road                   |
| d) Quantum physic  | Manikandam, Trichy-620 012.                    |
| 18. Who is generally credited with the first serious scientific on the molecular or even the atomic scale was possible? The California Technical Institute and was called, "There's Plenta Richard P. Feynman b) Ed Regis c) K. Eric Drexler d) Ralph Merkle | claim was made at                              |
| 19. In 1986, Dr. K. Eric Drexler published a book for the lay overview of the potential applications of molecular nanotech computing, medicine, space science, and the military. What veground-breaking book?  | nology in such areas as                        |
| a) Smaller is Better (b) Engines of Creation c) A Crowded Blueprint d) The Atomic Cookbook   |  |
| 20. A particular molecule of carbon made up of sixty carbon press as a structure that shows promise as a basic building bl molecular manufacturing. What is the whimsical nontechnic a) Fullerrods b) Nanonodes  | ock in the area of                             |

c) Buckyballs

- d) Nanocubes
- 21. What is the general name for the class of structures made of rolled up carbon lattices?
- a) Nanorods
- (b) Nanotubes
- c) Nanosheets
- d) Fullerrods
- 22. Nano, as a prefix, denotes what order of magnitude?
- a) 10^-6
- b) 10^-3
- c) 10^-12
- d) 10^-9
- 23. What is the term used in the field of nanotechnology to describe an as-yet theoretical device that "will be able to bond atoms together in virtually any stable pattern?"
- a) Stacker
- b) Replicator
- (c) Assembler
- d) Constructor
- 24. In discussions of the potential of molecular nanotechnology, the possibility has been posited that badly or maliciously designed self-assembling structures could get out of control, and destroy or disassemble all structures they encounter in their blind quest to replicate. What is the term for such a structure or group of structures?
- a) Blue goo
- b) Green Goo
- c) Red goo
- d) Gray goo
- 25. Scientists discussing the potential of molecular nanotechnology realized the possibility that self-assembling molecular constructs could conceivably get out of control and destroy just about anything. This led to the concept that other constructs could be designed to neutralize and/or destroy the rogue substances before they got out of hand. By what colorful term are these theoretical "antibody" substances collectively known?
- (a) Gray goo
- b) Green goo
- c) Red goo
- d) 3lue goo

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

| Name | of | the | Student | : |
|------|----|-----|---------|---|
|------|----|-----|---------|---|

Year/Sem:

**AU Register Number:** 

|  | Value Added Course on "ERP Basics and Its Applicability in Modern Era"  |          |         |                  |  |  |  |  |
|--|---|----------|---------|------------------|--|--|--|--|
|  | MCO OUESTIONS (25X4 = 100 Marks)  |          |         |                  |  |  |  |  |
| 1.M  | 1. Material Requirement Planning (MRP) utilizes software applications for scheduling_                                 |          |         |                  |  |  |  |  |
| A.   | sales management. B. production processes.  |          |         |                  |  |  |  |  |
| C. marketing techniques. D. human resource management.                                     |   |          |         |                  |  |  |  |  |
| 2. <b>E</b>  | 2. ERP supportscurrency value.  |          |         |                  |  |  |  |  |
| A. n   | nultiple. B single. C. 1  | three.   | D. f    | ive.             | (6)  |  |  |  |
| 3. E   | RP package will handle_   | busi     | ness fu | nctionalities.   | (D):   |  |  |  |
| A.   | one.  | В.       | two.    | Ι                | Dr. G. Balakrishnan, M.E., Ph.D.,              |  |  |  |
| C.   | three.  | D.       | all.    | Ir               | Principal  ndra Ganesan College of Engineering |  |  |  |
| 4. <b>T</b> ]  | 4. The most important step of ERP implementation is phase.  IG Valley, Madurai Main Road  Manikandam, Trichy-620 012. |          |         |                  |  |  |  |  |
| A.   | installing.   | B.       | train   |                  |  |  |  |  |
| C.   | gap analysis.   | D.       | testin  | ıg.              |  |  |  |  |
| 5. A   | n enterprise is a group of  | people   | with_   |                  |  |  |  |  |
| A.   | common goal.  |          | В.      | separate goal fo | or each department.                            |  |  |  |
| C.   | multiple goals.   |          | D.      | two or more go   | •  |  |  |  |
| 6. In, entire organization is considered as a system and the departments are itssubsystem. |   |          |         |                  |  |  |  |  |
| A.   | business way.   |          | В.      | general.         |  |  |  |  |
| C.   | enterprise way.   |          | D.      | planning.        |  |  |  |  |
| 7. Ar  | n information system prod   | luces in | nforma  | tion using the   | cvcle.   |  |  |  |
| A.   | data analysis.  | В.       |         | process-output.  |  |  |  |  |
| C.   | input-output.   | D.       | proces  | ss-input-output. |  |  |  |  |

| 8<br>inv(    | used to support the old procolvesreducing some requirements | ess to b<br>s while | ecome u             | seful in the ing others. | nev    | v process,   |
|--------------|---|---------------------|---------------------|--------------------------|--------|--|
| A.           | transitioning the information.                              |                     | B.                  | software m               | ana    | gement.  |
| C.           | front-office software.                                      |                     | D.                  | information              | n sys  | stem.  |
| 9. <b>V</b>  | Which of the following method is                            | used to             | produc              | e reports ab             | out    | data.  |
| A.           | decision support systems.                                   |                     | В.                  | executive in             | nfor   | mation systems.  |
| C.           | query/report writing tool.                                  |                     | D.                  | all the abov             | re.    |  |
| 10           | approaches reduces data red                                 | undan               | cy and p            | rovide upda              | ate in | nformation.  |
| A.           | legacy system.  |                     | В.                  | information              |        |  |
| C.           | integrated data model.                                      |                     | D.                  | data base.               |        |  |
| 11.          | The elapsed time between placing a                          | n order             | and it re           | eceiving it is:          | also   | known as .   |
| A.           | elapsed time.   | В.                  |                     | g time.                  |        |  |
| C.<br>12. I  | time interval.  n order to reduce the lead times,           | D.                  | expect<br>ganizatio | ed time.<br>On should ha | ave :  | an efficient   |
| syste        | m,  |                     |                     |                          |        | •  |
| A.           | purchasing.   | B.                  | produc              | tion planning            | g.     |  |
| C.           | inventory.  | D.                  | integra             | ted inventor             | y.     | (A   |
| 13. C        | ustomer specific products are al                            |                     | wn as               |                          | Dr.    | G. Balakrishnan, M.E., Ph.D.,                              |
| A.           | make-to-stock.  | B.                  | make-t              | o-order.                 | Indi   | Principal ra Ganesan College of Engineering                |
| C.           | goods.  | D.                  | expecte             | ed products.             |        | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012 |
| 14.<br>chang | Usingsystem, business car<br>georders.                      | ı gain e            | effective           | control over             | r en   |  |
| A.           | engineering change control.                                 | В.                  | enginee             | ering change             | orde   | er.  |
| C.           | inventory.  | D.                  | product             | ion planning             | 5.     |  |
| 15. In       | the case of make-to-order items                             | , the E             | RP syste            | ms save tim              | e by   | integrating with   |
| A.           | engineering change control.                                 | B.                  | enginee             | ring change              | orde   | T.   |
| C.           | cad and cam.  | D.                  | cad.                |                          |        |  |

|              | Theplanning features of m illedcapacity planning. | ost ERP   | systems offer   | r, both rough cut and                                       |
|--------------|---|-----------|-----------------|---|
| A.           | capacity.   | В.        | production      |   |
| C.           | marketing.  | D.        | test.           |   |
| 17.          | is a key issue in the formation                   | n of stra | itegic plans ii | n companies.  |
| A.           | computerized.                                     | B.        | quantity.       |   |
| C.           | quality.  | D.        | flexibility.    |   |
| 18.          | The business information has                      | fundame   | ental charact   | eristics.   |
| A.           | 1   | В.        | 2               |   |
| C.           | 3   | D.        | many            | (0)   |
| 19. 7        | The CRM system consist ofco                       | mponent   | ts.             | (D):  |
| A.           | 2.  | B.        | 3.              | Dr. G. Balakrishnan, M.E., Ph.D                             |
| C.           | 5.  | D.        | many.           | Principal  Indra Ganesan College of Engineering             |
| 20           | is the first phase in BPR.                        |           |                 | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| A.           | begin organizational change.                      | B.        | identifying b   | ppr opportunities.  |
| C.           | reengineering the process.                        | D.        | blueprint the   | e new business system.                                      |
| 21. 7        | The first step in business strateg                | y is      |                 |   |
| A.           | planning.   | B.        | develop blu     | eprint.   |
| C.           | marketing.  | D.        | assessment.     |   |
| 22 I         | Ouring thesession the reen                        | gineerin  | g must also c   | onsider new technologies.                                   |
| A.           | planning  | В.        | implementi      | ng.   |
| C.           | brainstorming.                                    | D.        | training.       |   |
| 23. <b>T</b> | The reengineering team must co                    | nsider_i  | in the redesig  | gn of a process.  |
| A.           | all resources.                                    | В.        | all process st  | takeholders.  |
| C.           | existing system.                                  | D.        | legacy system   | m.  |

| 24. The    | contains | models | of the | redesigned | organizational |
|------------|----------|--------|--------|------------|----------------|
| structure. |          |        |        |            |                |

A. planning report.

- B. blueprint.
- C. marketing strategy.
- D. implementation report.
- 25. Transforming the workforce will require a\_.
- A. array of activities.
- B. blueprint.
- C. training and education.
- D. planning.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

| Na   | me of the Student : Are             | ul Por    | as odl  | n, E                                  | Year/Sem: T_MBA   |  |  |
|--|-------------------------------------|-----------|---------|---------------------------------------|---|--|--|
| AU   | Register Number: 811                | 2196      | 3100    | $5 \qquad \left(\frac{20}{25}\right)$ | •   |  |  |
| Value Added Course on "ERP Basics and Its Applicability in Modern Era" |                                     |           |         |                                       |   |  |  |
|  | MCO C                               | 1013/5901 | ONS (2  | 5X4 = 100  Marks)                     |   |  |  |
| 1.M  | aterial Requirement Plan            | nning (   | MRP)    | utilizes software ap                  | pplications for scheduling  |  |  |
| A.   | sales management.                   | 6?        | pro     | duction processes.                    |   |  |  |
| C.   | marketing techniques.               | D.        | hun     | nan resource manag                    | ement.  |  |  |
| 2. E   | RP supportscurrenc                  | y value   |         |                                       |   |  |  |
| A)m  | ultiple. B single. C.               | three.    | D. f    | ive.                                  | _   |  |  |
| 3. El  | RP package will handle_             | busi      | ness fu | nctionalities.                        | Dr. G. Balakrishnan, M.E., Ph.D.,                                 |  |  |
| A.   | one.                                | В.        | two.    | ,                                     | Principal   |  |  |
| C.   | three.                              | 1         | all.    |                                       | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |  |  |
| 4. Th  | e most important step of            | ERP i     | mplem   | entation is_phase.                    | Manikandam, Trichy-620 012.                                       |  |  |
| A.   | installing.                         | В.        | train   | ing.                                  |   |  |  |
| 0  | gap analysis.                       | D.        | testin  | ng.                                   |   |  |  |
| 5. Aı  | n enterprise is a group of          | people    | with_   | <b>_</b> ·                            |   |  |  |
| A.   | common goal.                        |           | (B.)    | separate goal for e                   | each department.  |  |  |
| C.   | multiple goals.                     |           | D.      | two or more goals                     |   |  |  |
| 6. In_<br>are its  | , entire organization is subsystem. | s consid  | lered a | s a system and the                    | departments   |  |  |
| A.   | business way.                       |           | B.      | general.                              |   |  |  |
| @  | enterprise way.                     |           | D.      | planning.                             |   |  |  |
| 7. <b>An</b>   | information system prod             | luces in  | forma   | tion using the_cyc                    | le.   |  |  |
| A.   | data analysis.                      | (B)       | input-  | process-output.                       |   |  |  |
| C.   | input-output.                       | D.        | proces  | ss-input-output.                      |   |  |  |
|  |                                     |           |         |                                       |   |  |  |

|                        | used to support the old proce yesreducing some requirements |               |           |                            | ew process,   |
|------------------------|---|---------------|-----------|----------------------------|---|
| (A)/                   | transitioning the information.                              |               | B.        | software man               | agement.  |
| C.                     | front-office software.                                      |               | D.        | information s              | ystem.  |
| 9. <b>W</b>            | hich of the following method is u                           | sed to        | produc    | e reports abou             | ut data.  |
| A.                     | decision support systems.                                   |               | В.        | executive infe             | ormation systems.   |
| C.                     | query/report writing tool.                                  |               | (D)       | all the above.             |   |
| 10                     | approaches reduces data redu                                | ındanc        | y and p   | rovide update              | e information.  |
| A.                     | legacy system.  |               | B.        | information s              | ystem.  |
| 0                      | integrated data model.                                      |               | D.        | data base.                 |   |
| 11. <b>T</b>           | The elapsed time between placing a                          | n order       | and it r  | eceiving it is als         | so known as   |
| A)                     | elapsed time.   | В.            | waitin    | g time.                    |   |
| C.<br>12. In<br>system | time interval.  order to reduce the lead times,  m.         | D.<br>the org |           | ted time.<br>on should hav | re an efficient _   |
| A.                     | purchasing.   | В.            | produc    | ction planning.            |   |
| C.                     | inventory.  | (D)           | integra   | ated inventory.            | (A  |
| 13. C                  | ustomer specific products are al                            | so knov       | vn as     |                            | Dr. G. Balakrishnan, M.E., Ph.D.,                           |
| A.                     | make-to-stock.  | (B.)          | make-     | to-order.                  | Principal Indra Ganesan College of Engineering              |
| C.                     | goods.  | D.            | expect    | ed products.               | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| 14.<br>chang           | Usingsystem, business car<br>georders.                      | n gain e      | effective | e control over             |   |
| A                      | engineering change control.                                 | B.            | engine    | ering change o             | order.  |
| C.                     | inventory.  | D.            | produc    | tion planning.             |   |
|                        | the case of make-to-order items<br>stems.                   | , the E       | RP syst   | ems save time              | by integrating with   |
| <b>A</b> )             | engineering change control.                                 | B.            | engine    | ering change o             | order.  |
| C.                     | cad and cam.  | D.            | cad.      |                            |   |

|             | Theplanning features of a miledcapacity planning. | most ER    | P systems offer, both rough cut and                            |
|-------------|---|------------|--|
| (A)         | capacity.   | B.         | production.  |
| C.          | marketing.  | D.         | test.  |
| 17.         | is a key issue in the format                      | ion of str | ategic plans in companies.                                     |
| A.          | computerized.                                     | В.         | quantity.  |
| C.          | quality.  | 0          | flexibility.   |
| 18.         | The business information has_                     | _fundam    | ental characteristics.   |
| Α.          | 1   | B.         | 2  |
| 0           | 3   | D.         | many   |
| 19. 7       | The CRM system consist ofco                       | omponen    | ts. Dr. G. Balakrishnan, M.E., Ph.D.,                          |
| A.          | 2.  | B          | 3. Indra Ganesan College of Engineering                        |
| C.          | 5.  | D.         | many. IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 20          | is the first phase in BPR.                        |            |  |
| A.          | begin organizational change.                      | B.         | identifying bpr opportunities.                                 |
| (-)         | reengineering the process.                        | D.         | blueprint the new business system.                             |
| 21. T       | he first step in business strateg                 | gy is      |  |
| A.          | planning.   | B.         | develop blueprint.   |
| C.          | marketing.  | 0          | assessment.  |
| 22 <b>D</b> | uring thesession the reen                         | ıgineerin  | g must also consider new technologies.                         |
| Α.          | planning  | B.         | implementing.  |
| 9           | brainstorming.                                    | D.         | training.  |
| 23. TI      | he reengineering team must co                     | nsider_i   | n the redesign of a process.                                   |
| A.          | all resources.                                    | (B)        | all process stakeholders.                                      |
| C.          | existing system.                                  | D.         | legacy system.   |

| 24.  | The     | contains | models | of the | e redesigned | organizationa |
|------|---------|----------|--------|--------|--------------|---------------|
| stri | icture. |          |        |        | 4000         |               |

planning report. A.

blueprint.

C. marketing strategy. D. implementation report.

25. Transforming the workforce will require a\_.

array of activities.

B. blueprint.

C. training and education.

D. planning.

Dr. G. Balakrishnan, M.E., Ph.C.

Principal

Year/Sem: I-MBA

Name of the Student: Penumal. D

| AU Register Number: 8112 19631022 (25)  |  |             |   |  |  |  |  |  |
|---|--|-------------|---|--|--|--|--|--|
| Value Added Course on "ERP Basics and Its Applicability in Modern Era"                      |  |             |   |  |  |  |  |  |
| MCO OUESTIONS (25X4 = 100 Marks)  |  |             |   |  |  |  |  |  |
| 1. Material Requirement Planning (MRP) utilizes software applications for scheduling        |  |             |   |  |  |  |  |  |
| A.  | sales management.  | B)          | production processes.   |  |  |  |  |  |
| C.  |  |             |   |  |  |  |  |  |
| 2. ERP supportscurrency value.  |  |             |   |  |  |  |  |  |
| (A) multiple. B single. C. three. D. five.  |  |             |   |  |  |  |  |  |
| 3. ERP package will handlebusiness functionalities.   |  |             |   |  |  |  |  |  |
| Α.  | one.   | очол.<br>В. | Dr. G. Balakrishnan, M.E., Ph.D., Principal                             |  |  |  |  |  |
| C.  | three.   | Ø}          | Indra Ganesan College of Engineering all.  IG Valley, Madurai Main Road |  |  |  |  |  |
| 4. <b>T</b> l   | 4. The most important step of ERP implementation is_phase. |             |   |  |  |  |  |  |
| A.  | installing.  | В.          | training.   |  |  |  |  |  |
|   | gap analysis.  | D.          | •   |  |  |  |  |  |
| 5 4   |  |             | testing.  |  |  |  |  |  |
| J. A.   | n enterprise is a group of                                 | people      | with  |  |  |  |  |  |
| (A.)  | common goal.   |             | B. separate goal for each department.                                   |  |  |  |  |  |
| C.  | multiple goals.  |             | D. two or more goals.   |  |  |  |  |  |
| 6. In, entire organization is considered as a system and the departments are its subsystem. |  |             |   |  |  |  |  |  |
| A.  | business way.  |             | B. general.   |  |  |  |  |  |
| <b>(C)</b>  | enterprise way.  |             | D. planning.  |  |  |  |  |  |
| 7. An   | information system prod                                    | uces in     | formation using thecycle.   |  |  |  |  |  |
| A.  | data analysis.   | (B.)        | input-process-output.   |  |  |  |  |  |
| C.  | input-output.  | D.          | process-input-output.   |  |  |  |  |  |

|                      |  |                   | Timb.          |  |  |
|----------------------|--|-------------------|----------------|--|--|
| 8<br>invo            | used to support the old problems.                    | ocess to bo       | ecome<br>expan | useful in the no   | ew process,  |
| 0                    | transitioning the information.                       |                   | B.             | software man   | agement.   |
| C.                   | front-office software.                               |                   | D.             | information s  | ystem.   |
| 9. <b>V</b>          | Which of the following method i                      | is used to        | produ          | ice reports abou   | ıt data.   |
| Å.                   | decision support systems.                            |                   | B.             | executive info   | ormation systems.  |
| 6.                   | query/report writing tool.                           |                   | D.             | all the above.   |  |
| 10                   | approaches reduces data r                            | edundanc          | y and          | provide update   | information.   |
| A.                   | legacy system.                                       |                   | B.             | information sy   | ystem.   |
| O                    | integrated data model.                               |                   | D.             | data base.   |  |
| 11.                  | The elapsed time between placing                     | g an order        | and it         | receiving it is als  | so known as  |
| A)                   | elapsed time.  | B.                |                | ing time.  |  |
| C.<br>12. I<br>syste | time interval.  In order to reduce the lead time em. | D.<br>es, the org | expe<br>ganiza | cted time.<br>tion should have   | e an efficient _   |
| A.                   | purchasing.  | В.                | prod           | uction planning.   |  |
| C.                   | inventory.   | (D?)              | integ          | rated inventory.   | (0)  |
| 13. (                | Customer specific products are                       | 1 7               | vn as_         | e de la companie de l | Dr. G. Balakrishnan, M.E.,   |
| (P                   | make-to-stock.                                       | В.                | make           | e-to-order.  | Indra Ganesan College of Engin   |
| J.                   | goods.   | D.                | expe           | cted products.   | <b>IG Valley, Mad</b> urai Main Roa<br><b>Manikandam, Tr</b> ichy-620 01 |
| 4.<br>han            | Usingsystem, business georders.                      | can gain e        | effectiv       | ve control over  | engineering  |
| 9                    | engineering change control.                          | В.                | engin          | neering change or  | rder.  |
| 7.                   | inventory.   | D.                | produ          | action planning.   |  |
| 5. Iı<br>s           | n the case of make-to-order ite                      | ms, the E         | RP sys         | stems save time  | by integrating with  |
| ۸.                   | engineering change control.                          | B.                | engin          | eering change or   | der.   |
| C.                   | cad and cam.   | (D)               | cad.           |  |  |

|          | Theplanning features of railedcapacity planning. | nost ERP   | systems offer     | , both rough cut and   |
|----------|--|------------|-------------------|--|
| (A?)     | capacity.  | В.         | production.       |  |
| Č.       | marketing.                                       | D.         | test.             |  |
| 17.      | is a key issue in the formati                    | on of stra | itegic plans in   | companies.   |
| (A)      | computerized.                                    | В.         | quantity.         |  |
| Č.       | quality.   | D.         | flexibility.      |  |
| 18.      | The business information has                     | _fundame   | ental character   | ristics.   |
| Α.       | ×1   | B.         | 2                 |  |
| 0        | 3  | D.         | many              |  |
| 19.      | The CRM system consist of_co                     | mponent    | S.                | Dr. G. Balakrishnan, M.E., Ph.D.                                     |
| A.       | 2.   | (B)        | 3.                | Principal  |
| C.       | 5.   | D.         | many.             | Indra Ganesan College of Engineering<br>IG Valley, Madurai Main Road |
| 20       | is the first phase in BPR.                       |            |                   | Manikandam, Trichy-620 012.  |
| (A)      | begin organizational change.                     | В.         | identifying bpi   | r opportunities.   |
| Č.       | reengineering the process.                       | D.         | blueprint the n   | ew business system.  |
| 21. T    | The first step in business strateg               | y is       |                   |  |
| A.       | planning.  | B.         | develop bluep     | rint.  |
| C.       | marketing.                                       | (D)        | assessment.       |  |
| 22 D     | Ouring thesession the reen                       | gineering  | must also con     | sider new technologies.  |
| Α        | planning   | B.         | implementing.     |  |
| <b>O</b> | brainstorming.                                   | D.         | training.         |  |
| 23. T    | he reengineering team must con                   | sider_in   | the redesign      | of a process.  |
| (A)      | all resources.                                   | В. а       | all process stake | eholders.  |
| C.       | existing system.                                 | D. 1       | egacy system.     |  |

| 24. The    | contains | models | of the | redesigned | organizational |
|------------|----------|--------|--------|------------|----------------|
| structure. |          |        |        |            |                |

A. planning report.

B. blueprint.

C. marketing strategy.

D. implementation report.

25. Transforming the workforce will require a\_.

(A) array of activities.

B. blueprint.

C. training and education.

D. planning.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

| lame of the Student :  | vamo   | sh. R  | 2  | Year/Sem: I-MBA  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| U Register Number: &   | 11210  | 16211  | $0.28.$ $\frac{0.0}{0.5}$  | I-MBA  |  |  |  |  |
|  |  |  |  | ility in Modern Ers"   |  |  |  |  |
|  |  |  |  | THE PARTY AND TH |  |  |  |  |
|  |  |  | •  | onlications for scheduling   |  |  |  |  |
| sales management.  | ~  |  |  | passes to beneduning   |  |  |  |  |
| marketing techniques.  | D  |  |  | emant  |  |  |  |  |
| The state of the s |  |  |  |  |  |  |  |  |
|  |  |  | five   | . 10   |  |  |  |  |
| -  |  |  |  | (D.:   |  |  |  |  |
|  |  | iness n  | unctionalities.  | Dr. G. Balakrishnan, M.E., Ph.D  |  |  |  |  |
| one.   | В.   | two  | 0.   | Principal  |  |  |  |  |
| three.   | 0  | all.   |  | Indra Ganesan College of Engineering IG Valley, Madurai Main Read  |  |  |  |  |
| he most important step of  | FERP   | implen   | nentation is_phase.  | Manikandam, Trichy-620 012.  |  |  |  |  |
| installing.  | B.   | trai   | ning.  |  |  |  |  |  |
| gap analysis.  | D.   | testi  | ing.   |  |  |  |  |  |
| An enterprise is a group of  | peopl  | e with_  | *  |  |  |  |  |  |
| common goal.   |  | В.   |  |  |  |  |  |  |
|  |  |  | Scharage Rost tol. 67  | ach denartment   |  |  |  |  |
| multiple goals.  |  | D.   | separate goal for each   |  |  |  |  |  |
| -  | s consi  |  | two or more goals.   |  |  |  |  |  |
| multiple goals, entire organization is tssubsystem.  | s consi  |  | two or more goals.   |  |  |  |  |  |
| , entire organization is   | s consi  |  | two or more goals.   |  |  |  |  |  |
| , entire organization is tssubsystem.  | s consi  | dered a  | two or more goals.   |  |  |  |  |  |
| , entire organization is tssubsystem. business way. enterprise way.  |  | dered a B. D.  | two or more goals.  as a system and the of general.  planning.   | lepartments  |  |  |  |  |
| , entire organization is tssubsystem. business way.  |  | B. D.  | two or more goals.  as a system and the of general.  planning.   | lepartments  |  |  |  |  |
|  | Walue Added Course on MCO of Material Requirement Plate sales management.  marketing techniques.  ERP supportscurrent multiple. (B) single. (C. ERP package will handle one.  three.  The most important step of installing.  gap analysis.  In enterprise is a group of | Value Added Course on "ERF  MCO OUEST  Material Requirement Planning sales management.  marketing techniques.  DERP supportscurrency value multiple.  B single.  C. three.  ERP package will handlebus one.  three.  The most important step of ERP installing.  B.  gap analysis.  D.  In enterprise is a group of people | MCO OUESTIONS  Material Requirement Planning (MRP) sales management. marketing techniques. D. hu  ERP supportscurrency value. multiple. Single. C. three. D.  ERP package will handlebusiness for one. three. D.  The most important step of ERP implement installing. B. training gap analysis. D. test | marketing techniques. D. human resource manage  ERP supportscurrency value.  multiple. Single. C. three. D. five.  ERP package will handlebusiness functionalities.  one. B. two.  three. Simportant step of ERP implementation is_phase.  installing. B. training.  gap analysis. D. testing.  An enterprise is a group of people with  |  |  |  |  |

| -                    | Approved by AICT   | E, NewDe        | elhi & Ai         | fillated to Anna                 | University, Chennai   |
|----------------------|--|-----------------|-------------------|----------------------------------|---|
| 8<br>inv             | used to support the old pro<br>olvesreducing some requiremen | cess to b       | ecome expand      | useful in the no<br>ling others. | ew process,   |
|                      | transitioning the information.                               |                 | В.                | software man                     | agement.  |
| C.                   | front-office software.                                       |                 | D.                | information s                    | ystem.  |
| 9. V                 | Which of the following method is                             | s used to       | produc            | ce reports abou                  | ıt data.  |
| A.                   | decision support systems.                                    |                 | B.                | executive info                   | ormation systems.   |
| C.                   | query/report writing tool.                                   |                 | (0)               | all the above.                   |   |
| 10                   | approaches reduces data re                                   | dundan          | cy and p          | provide update                   | information.  |
| A.                   | legacy system.   |                 | В.                | information sy                   | ystem.  |
| (e.)                 | integrated data model.                                       |                 | D.                | data base.                       |   |
| 11.                  | The elapsed time between placing                             | an order        | r and it i        | receiving it is als              | so known as   |
| A)                   | elapsed time.  | В.              | waitir            | ng time.                         |   |
| C.<br>12. l<br>syste | time interval.  In order to reduce the lead time em.         | D.<br>s, the or | expec<br>ganizati | ted time.<br>ion should hav      | e an efficient _  |
| A.                   | purchasing.  | В.              | produ             | ction planning.                  |   |
| C.                   | inventory.   | <b>ര</b> ്)     | integr            | ated inventory.                  |   |
| 13. (                | Customer specific products are                               |                 | wn as_            | *                                | Dr. G. Balakrishnan, M.E. Ph                                      |
| A.                   | make-to-stock.   | (B)             | make-             | -to-order.                       | Principal   |
| C.                   | goods.   | D.              | expec             | ted products.                    | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |
| 14.<br>chan          | Usingsystem, business cargeorders.                           | an gain         | effectiv          | e control over                   | Manikandam, Trichy-620 012. engineering                           |
| A.                   | engineering change control.                                  | В.              | engine            | eering change or                 | rder.   |
| C.                   | inventory.   | <b>(</b> 5.)    | produc            | ction planning.                  |   |
|                      | n the case of make-to-order iten                             | ns, the E       | CRP syst          | tems save time                   | by integrating with   |
| A.                   | engineering change control.                                  | В.              | engine            | eering change or                 | rder.   |
| C.                   | cad and cam.   | 0               | cad.              |                                  |   |

| ineplanning features of ailedcapacity planning. | most ER   | P systems offer  | , both rough cut and   |
|---|---|--|--|
| capacity.                                       | В.  | production.  |  |
| marketing.                                      | D.  | test.  |  |
| is a key issue in the format                    | tion of st  | rategic plans in   | companies.   |
| computerized.                                   | B.  | quantity.  |  |
| quality.  | 0   | flexibility.   |  |
| The business information has_                   | _fundan   | nental character   | ristics.   |
| <b>/1</b>                                       | B.  | . 2  |  |
| 3   | D.  | many   | WE BLD   |
| The CRM system consist ofc                      | omponen   | ıts.   | Dr. G. Balakrishnan, M.E., Ph.D<br>Principal                         |
| 2.  | (B.   | 3.   | Indra Ganesan College of Engineering<br>IG Valley, Madurai Main Road |
| 5.  | D.  | many.  | Manikandam, Trichy-620 012.  |
| is the first phase in BPR.                      |   |  |  |
| begin organizational change.                    | В.  | identifying bpi  | opportunities.   |
| reengineering the process.                      | D.  | blueprint the n  | ew business system.  |
| he first step in business strateg               | gy is   |  |  |
| planning.                                       | В.  | develop bluep  | rint.  |
| marketing.                                      | 03  | assessment.  |  |
| uring thesession the reer                       | ıgineerin   | g must also con  | sider new technologies.  |
| planning  | В.  | implementing.  |  |
| brainstorming.                                  | D.  | training.  |  |
| he reengineering team must co                   | nsider_i  | n the redesign (   | of a process.  |
| all resources.                                  | (B)   | all process stake  | eholders.  |
| existing system.                                | D.  | legacy system.   |  |
|   | capacity planning.  capacity.  marketing. is a key issue in the formate computerized. quality.  The business information has  1 3  The CRM system consist ofc 2. 5. is the first phase in BPR.  begin organizational change. reengineering the process.  the first step in business stratest planning. marketing.  uring thesession the reently planning brainstorming.  the reengineering team must contain all resources. | capacity.  marketing. is a key issue in the formation of street computerized.  quality.  The business information hasfundam  1 | capacity. marketing.   |

| 24. | T   | he    | contains | models | of | the | redesigned | organizational |
|-----|-----|-------|----------|--------|----|-----|------------|----------------|
| str | H C | ture. |          |        |    |     |            |                |

A. planning report.

B. blueprint.

C. marketing strategy.

D. implementation report.

25. Transforming the workforce will require a\_.

array of activities.

B. blueprint.

C. training and education.

D. planning.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

(2019-20 Even).



# Value Added Course on "ERP Basics and Its Applicability in Modern Era"

#### ANSWER KEY

| 1 | В | 6  | C | 11 | A | 16 | A | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | A | 7  | В | 12 | D | 17 | D | 22 | C |
| 3 | D | 8  | A | 13 | В | 18 | С | 23 | В |
| 4 | C | 9  | D | 14 | A | 19 | В | 24 | В |
| 5 | A | 10 | С | 15 | D | 20 | A | 25 | Α |

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

#### Name of the Student:

Year/Sem:

#### **AU Register Number:**

Value Added Course on "REVIT ARCHITECTURE"

#### MCQ QUESTIONS (25X1 = 25 Marks)

- 1. What is the purpose of Story Levels in a Revit project?
  - a) To establish floor to floor heights
  - b) To set a stage
  - c) To balance the building
  - d) To establish the normal level of the floors
- 2. When constructing stairs in a building with more than two floors, which option should you use to ensure that the stairs and railings are consistent from floor to floor?
  - a) Multi story Stair Run
  - b) Stair Duplicate
  - c) Complex Vertical Measure
  - d) Multi story Top Level
- 3. \_\_\_\_\_is used to place column grid lines in the building design.
  - a) Symbol
  - b) Level
  - c) Bubble
  - d) Grid
- 4. \_\_\_\_ is a process of drawing elements in Revit Architecture.
  - a) Analysis Display Styles
  - b) Extrusions
  - c) Resizing
  - d) Sketching
- 5. What is the short key of Model Line?
  - a) ML
  - b) MLI
  - c) LI
  - d) LINE
- 6. What is the short key of Modify?
  - a) MO
  - b) MD
  - c) MF
  - d) MOD

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

- 7. What is the short key of Create Group?
  - a) G

b) GR

c) GP

d) CG



# Indra Ganesan

GOLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- 8. What is the short key of Room?
  - a) RM
  - b) RO
  - c) AR
  - d) RA
- 9. What is the short key of Reference Plane?
  - a) RP
  - b) RF
  - c) PL
  - d) PN
- 10. What is the short key of Aligned Dimension?
  - a) AD
  - b) DA
  - c) AL
  - d) DI
- 11. What is the short key of Hide Element?
  - a) HE
  - b) EH
  - c) HD
  - d) EL
- 12. What is the short key of Hide Category?
  - a) CH
  - b) HC
  - c) VH
  - d) MH
- 13. What is the short key of Delete?
  - a) D
  - b) DL
  - c) DE
  - d) DT
- 14. What is the short key of Split Element?
  - a) SE
  - b) SP
  - c) SL
  - d) ST
- 15. What is the short key of Mirror Pick axis?
  - a) M
  - b) DM
  - c) MM
  - d) MI

D.:-

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-628 \$12.



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| 16. You can hide objects or unhide o               | bjects from which to   | olbar?                              |
|--|------------------------|-------------------------------------|
| a) Status bar                                      | C)Quick access tooll   | bar                                 |
| b) View control bar                                | d)Options bar          |                                     |
|  |                        |                                     |
| 17. When you've selected multiple el               | lements in a design, u | se the tool to                      |
| select just walls.                                 |                        |                                     |
| a) Filter  |                        |                                     |
| <ul><li>b) Mirror</li><li>c) Trim/Extend</li></ul> |                        |                                     |
| d) All of the Above                                |                        |                                     |
| 18 When creating a straight run, t                 | he run lines that indi | rate slone are                      |
| color.   | he fun lines that man  | cate Stope and                      |
| a) Blue  |                        |                                     |
| b) Green   |                        | 1                                   |
| c) Red   |                        | J.                                  |
| d) Black   |                        |                                     |
| 19. Which of the following is not a ty             | pe of mass in Revit?   |                                     |
| a) Sweep   | 1                      | Dr. G. Balakrishnan, M.E., Ph.D     |
| b) Spline  |                        | Principa'                           |
| c) Extrusion                                       |                        | Indra Ganesan Coilege of Engineerin |
| d) Revolve   |                        | TO Valley Magural Mail News         |
| 20. What tab contains the Import pa                | inel in Ribbon bar?    | Manikandam, Trichy-628 012.         |
| a) Modify tab                                      |                        |                                     |
| b) Manage tab                                      |                        |                                     |
| c) Collaborate tab                                 |                        |                                     |
| d) Insert tab                                      |                        |                                     |
| 21. What option(s) from the choice b               | pelow are available in | the In-Place Mass editor            |
| mode?  |                        |                                     |
| a) Line tool                                       |                        |                                     |
| b) Circle tool                                     |                        |                                     |
| c) Rectangle tool                                  |                        |                                     |
| d) All of the above                                |                        |                                     |
|  |                        |                                     |
| 22. When no model elements are sele                | ested the Properties   | nalette displays                    |
| 22. When he model elements are sen                 | retou, the respectives | have and see humbs                  |
| a) Nothing   |                        |                                     |
| b) View properties                                 |                        |                                     |
| c) Editing tools                                   |                        | d) None of the above                |



#### 23. . To add mullions to a certain panel you can place a mullion

- a) Continuously along a grid line
- b) Even on all empty grids
- c) Continuously along a segment of a grid line
- d) All of the above

# 24. The option to load component families into your project is on which tab in Ribbon Bar?

- a) Insert tab
- b) Massing & Site tab
- c) View tab
- d) Collaborate tab

#### 25. Sketches for railings can consist of

- a) Lines that cross
- b) A series of connected lines
- c) Overlapping lines
- d) All of the above

(D)

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

#### Value Added Course on "REVIT ARCHITECTURE"

#### **ANSWER KEY**

| 1 | đ | 6  | b   | 11 | b | 16 | b | 21 | d |
|---|---|----|-----|----|---|----|---|----|---|
| 2 | a | 7  | ь   | 12 | ь | 17 | a | 22 | b |
| 3 | d | 8  | b   | 13 | c | 18 | ь | 23 | a |
| 4 | С | 9  | a   | 14 | С | 19 | ь | 24 | a |
| 5 | с | 10 | · d | 15 | d | 20 | d | 25 | a |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

San College of Engineering

y, Madurai Main Road

ndam, Trichy-620 012.



Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| Name | of | the | Stude | nt | 4 |
|------|----|-----|-------|----|---|
|------|----|-----|-------|----|---|

Dinesh - 9

Year/Sem:

AU Register Number: 8112 1510 3005

Value Added Course on "REVIT ARCHITECTURE"

#### MCO QUESTIONS (25X1 = 25 Marks)

| 1. | What is | the | purpose | of Story | Levels | in a | Revit project? |
|----|---------|-----|---------|----------|--------|------|----------------|
|----|---------|-----|---------|----------|--------|------|----------------|

- a) To establish floor to floor heights
- b) To set a stage
- c) To balance the building
- To establish the normal level of the floors
- 2. When constructing stairs in a building with more than two floors, which option should you use to ensure that the stairs and railings are consistent from floor to floor?
  - (a) Multi story Stair Run
  - b) Stair Duplicate
  - c) Complex Vertical Measure
  - d) Multi story Top Level
- is used to place column grid lines in the building design.
  - a) Symbol
  - b) Level
  - c) Bubble
  - (d) Grid
- is a process of drawing elements in Revit Architecture.
  - a) Analysis Display Styles
  - b) Extrusions
  - (c) Resizing
  - d) Sketching
- 5. What is the short key of Model Line?
  - a) ML
  - b) MLI
  - c))LI
  - d) LINE
- 6. What is the short key of Modify?
  - a) MO
  - (b) MD
  - c) MF
  - d) MOD

Dr. G. Balakrishnan, M.E., Ph.D., principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

7. What is the short key of Create Group?

a) G

(b)GR

c) GP

d) CG



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- 8. What is the short key of Room?
  - a) RM
  - b) RO
  - c) AR

RA (II)

- 9. What is the short key of Reference Plane?
  - a) Rf
  - b) RF
  - c) PL
  - d) PN
- 10. What is the short key of Aligned Dimension?
  - a) AD
  - b) DA
  - c) AL
  - (1) DI
- 11. What is the short key of Hide Element?
  - a) HE
  - b) EH
  - <del>HD</del> HD
    - d) EL
- 12. What is the short key of Hide Category?
  - a) CH
  - (h)) He
  - eY VH
  - d) MH
- 13. What is the short key of Delete?
  - a) D
  - b) DL
  - DE DE

d) DT

- 14. What is the short key of Split Element?
  - a) SE
  - b) SP
  - (E)) SX
  - d) ST
- 15. What is the short key of Mirror Pick axis?
  - a) M
  - b) DM
  - c) MM
  - (d)) MI/

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan Coilege of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



GOLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| 16. You can hide objects or unhi  | de objects from which toolbar?                    |         |
|-----------------------------------|---|---------|
| a) Status bar                     | ·C)Quick access toolbar                           |         |
| (b) View control bar              | d)Options bar                                     |         |
| \ /                               |   |         |
|                                   |   |         |
| 17. When you've selected multip   | le elements in a design, use the too              | l to    |
| select just walls.                |   |         |
| (a) Filter                        |   |         |
| b) Mirror                         |   |         |
| c) Trim/Extend                    |   |         |
| d) All of the Above               |   |         |
| 18 When creating a straight ru    | n, the run lines that indicate slope are          |         |
| color.                            | •   |         |
| a) Blue                           |   |         |
| (b) Green                         | v   |         |
| c) Red                            | 7   |         |
| d) Black                          |   |         |
| 19. Which of the following is not | a type of mass in Revit?                          |         |
| a) Sweep                          | P   |         |
| (b) Spline                        | Dr. G. Belakrishnan, M.E.,                        | , Ph.D. |
| c) Extrusion                      | Principal   |         |
| d) Revolve                        | Indra Ganesan College of Engin                    |         |
| 20. What tab contains the Import  | t panel in Ribbon bar? IG Valley, Madurai Main Re |         |
| a) Modify tab                     | Manikandam, Trichy-620 0                          | 12.     |
| b) Manage tab                     |   |         |
| c) CoMaborate tab                 | •   |         |
| d) Insert tab                     |   |         |
| 21. What option(s) from the choic | ce below are available in the In-Place Mass edit  | or      |
| mode?                             |   |         |
| a) Line tool                      |   |         |
| b) Circle to ol                   |   |         |
| c) Rectangle tool                 |   |         |
| (d) All of the above              |   |         |
|                                   |   |         |
|                                   |   |         |
| 22. When no model elements are s  | selected, the Properties palette displays         |         |
| ·/`                               | A A A A A A A A A A A A A A A A A A A             |         |
| a) Nothing                        |   |         |
| Wiew properties                   |   |         |
| c) Editing tools                  | d) None of the above                              |         |
|                                   |   |         |



Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

### 23. . To add mullions to a certain panel you can place a mullion

- (a) Commuously along a grid line
- by Even on all empty grids
- c) Continuously along a segment of a grid line
- d) All of the above
- 24. The option to load component families into your project is on which tab in Ribbon Bar?
  - (a) Insert tab
  - b) Massing & Site tab
  - c) View tab
  - d) Collaborate tab
- 25. Sketches for railings can consist of
  - a) Lines that cross
    - b) A series of connected lines
    - c) verlapping lines
  - d) All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| Name | of | the | Student | : | Simi | two | R |
|------|----|-----|---------|---|------|-----|---|
|      |    |     |         |   |      |     |   |

Year/Sem: T /avil

| U Re | gister                       | Number:   | 811217103303  |                                      |                               |  |
|------|------------------------------|---|---|--------------------------------------|-------------------------------|--|
|      |                              | Value   | Added Course on '   | "REVIT ARCH                          | ITECTURE"                     |  |
| 4    |                              |   | MCQ QUESTIO   | 74                                   | 7                             | 20   |
| 2.   | a)<br>b)<br>c)<br>d)<br>When | To establis To set a st To balance To establis constructi | sh floor to floor he age the building the normal level on stairs in a build ensure that the s | ights  of the floors  ding with more | than two floo                 | ors, which option  |
|      | a)<br>(b)<br>(c)             | Multi story<br>Stair Dupli<br>Complex V                   | Stair Run   | ď                                    | B                             |  |
| 3.   | a)<br>b)<br>c)<br>d)         | is used to p<br>Symbol<br>Level<br>Bubble<br>Grid         | lace column grid  |                                      |                               |  |
| 4    | a)<br>b)<br>©                |   | s of drawing elem<br>isplay Styles  | ents in Revit A                      | Dr. G. Balaki                 | rishnan, M.E., Ph.D.,  |
|      | a)<br>b)<br>©<br>d)          | ML<br>MLI<br>LI<br>LINE                                   | key of Model Lin  | e?                                   | Indra Ganesan<br>IG Valley, N | Principal College of Engineering Magurai Main Road am, Trichy-620 012. |
| 6. V | a) 1<br>b) 1                 |   | key of Modify?  |                                      |                               |  |

7. What is the short key of Create Group?

b) GR d) CG



GOLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| 8. What is the short key of Room?                |                                      |
|--|--------------------------------------|
| a) RM  |                                      |
| (b)) RO  |                                      |
| c) AR  |                                      |
| d) RA  |                                      |
| 9. What is the short key of Reference Plane?     |                                      |
| (a) RP   |                                      |
| b) RF  |                                      |
| c) PL  |                                      |
| d) PN  |                                      |
| 10. What is the short key of Aligned Dimension?  |                                      |
| a) AD  |                                      |
| b) DA  |                                      |
| c) AL  |                                      |
| (d) DI   |                                      |
| 11. What is the short key of Hide Element?       |                                      |
| <u>a</u> ) HE 1                                  |                                      |
| (5) EH   |                                      |
| c) HD  |                                      |
| d) EL  |                                      |
| 12. What is the short key of Hide Category?      |                                      |
| a) CH  |                                      |
| (b) HC   |                                      |
| c) VH  |                                      |
| d) MH  |                                      |
| 13. What is the short key of Delete?             | Dr. G. Ralakrichnen M. R. W. S.      |
| a) D   | Dr. G. Balakrishnan, M.E., Ph.D.,    |
| b) DL 3  | Indra Ganesan College of Engineering |
| © DE   | IG Valley, Madurai Main Road         |
| d) DT  | Manikandam, Trichy-620 012.          |
| 14. What is the short key of Split Element?      | ,                                    |
| a) SE  |                                      |
| b) SP  |                                      |
| SL   |                                      |
| d) ST  |                                      |
| <i>≥,</i> 21                                     |                                      |
| 15. What is the short key of Mirror - Pick axis? |                                      |
| a) M   |                                      |
| b) DM  |                                      |
| c) MM  |                                      |
| (d) MI   |                                      |
|  |                                      |



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| 16. You can hide objects or unhide objects from w     | hich toolbar?                       |
|---|-------------------------------------|
| a) Status bar C)Quick acce                            |                                     |
| (b) View control bar d)Options ba                     | r                                   |
| •   |                                     |
|   |                                     |
| 17. When you've selected multiple elements in a de    | sign, use the tool to               |
| select just walls.                                    |                                     |
| (a) Filter  |                                     |
| b) Mirror   |                                     |
| c) Trim/Extend  |                                     |
| d) All of the Above                                   |                                     |
| 18 When creating a straight run, the run lines tha    | at indicate slope are               |
| color.  | •                                   |
| a) Blue   |                                     |
| (b) Green   | 10 .                                |
| c) Red  |                                     |
| d) Black  |                                     |
| 19. Which of the following is not a type of mass in F | Revit?                              |
| a) Sweep  |                                     |
| Spline  | Dr. G. Balakrishnan, M.E., Ph.D     |
| c) Extrasion  | Principal                           |
| d) Revolve  | Indra Ganesan College of Engineerin |
| 20. What tab contains the Import panel in Ribbon b    | to Valley, Madurar Main, Neds       |
| a) Modify tab   | Manikandam, Trichy-620 012.         |
| b) Manage tab   |                                     |
| c) Collaborate tab                                    | •                                   |
| (d) Insert tab  |                                     |
| 21. What option(s) from the choice below are availa   | ble in the In-Place Mass editor     |
| mode?   |                                     |
| a) Line tool  |                                     |
| b) Circle tool  |                                     |
| c) Rectangle tool                                     |                                     |
| (d) All of the above                                  |                                     |
|   |                                     |
|   |                                     |
| 22. When no model elements are selected, the Proper   | rties nalette displays              |
|   | the palette displays                |
| a) Nothing  |                                     |
| (b) View properties                                   |                                     |
| c) Editing tools                                      | d) None of the above                |
|   | -,                                  |



# Indra Ganesan

# Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

#### 23. .To add mullions to a certain panel you can place a mullion

- Continuously along a grid line
  - b) Even on all empty grids
  - c) Continuously along a segment of a grid line
  - d) All of the above
- 24. The option to load component families into your project is on which tab in Ribbon Bar?
  - (a) Insert tab
  - b) Massing & Site tab
  - c) View tab
  - d) Collaborate tab
- 25. Sketches for railings can consist of
  - a Lines that cross
  - b) A series of connected lines
  - c) Overlapping lines
  - d) All of the above

D:/

Dr. G. Balakrishnan, M.E., Ph.D.,

principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-628 012.



ENGI

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Name of the Student:

VIGNESH . K

Year/Sem:

AU Register Number: 81121613013

Value Added Course on "REVIT ARCHITECTURE"

#### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. What is the purpose of Story Levels in a Revit project?
  - a) To establish floor to floor heights
  - b) To set a stage
  - c) To balance the building

(1) To establish the normal level of the floors

- 2. When constructing stairs in a building with more than two floors, which option should you use to ensure that the stairs and railings are consistent from floor to
  - (a) Multi story Stair Run
  - b) Stair Duplicate
  - c) Complex Vertical Measure
  - d) Multi story Top Level
- is used to place column grid lines in the building design.
  - a) Symbol
  - b) Level
  - c) Bubble
  - (d)) Grid
- is a process of drawing elements in Revit Architecture.
  - a) Analysis Display Styles
  - b) Extrusions
  - (c) Resizing
  - d) Sketching
- 5. What is the short key of Model Line?
  - a) ML
  - b) MLI

  - d) LINE
- 6. What is the short key of Modify?
  - a) MO
  - (D) MD
  - c) WF
  - d) MOD
- 7. What is the short key of Create Group?
  - a) G

(b) GR

c) GP

d) CG

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-629 012.



a) M (b) DM c) MM d) MI

# Indra G

|                 | Magnial Main Road          | OF ENGINEERING<br>(NH-45B), Manikandam, Trichy-12.<br>elhi & Affiliated to Anna University, Chennai |
|-----------------|----------------------------|---|
| 8. What is th   | e short key of Room?       |   |
| a) RM           |                            |   |
| b) RO           |                            |   |
| (C) AR          |                            |   |
| d) RA           |                            |   |
| 9. What is the  | e short key of Reference P | Plane?  |
| , a) RP         |                            |   |
| b) RF           |                            |   |
| PL PL           |                            |   |
| d) PN           |                            |   |
|                 | short key of Aligned Din   | nension?  |
| a) AD           |                            |   |
| b) DA           |                            |   |
| ( AL            |                            |   |
| d) DI           |                            |   |
|                 | short key of Hide Elemen   | nt?   |
| a) HE           |                            | 14.   |
| (c) HD          |                            | C.  |
| d) EL           |                            |   |
| ,               | short key of Hide Catego   |   |
| a) CH           | anort key of fride Catego  |   |
| b) HC           |                            | Dr. G. Balakrishnan, M.E., Ph.D.  |
| v (c) vh        |                            | Indra Ganesan Colland of English  |
| d) MH           |                            | IG Valley, Mesc.  |
| 13. What is the | short key of Delete?       | A   |
| a) D            | 361                        |   |
| b) DL           |                            |   |
| c) DÉ           |                            |   |
| (d))DT          |                            |   |
|                 | short key of Split Elemen  | t?  |
| a) SE           |                            |   |
| b) SP           |                            |   |
| © SL            |                            |   |
| d) st           |                            |   |
| 15. What is the | short key of Mirror - Pick | axis?   |



# Indra Ganesan

DOLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| The second secon | The state of the s |
|--|--|
| 16. You can hide objects or unhide object  | ts from which toolbar?   |
| -/   | Quick access toolbar   |
|  | Options bar  |
|  |  |
|  |  |
| 45.  |  |
|  | nts in a design, use the tool to   |
| select just walls.   |  |
| (a)) Filter  |  |
| b) Mirror  |  |
| c) Trim/Extend   |  |
| d) All of the Above  |  |
| 18 When creating a straight run, the ru  | n lines that indicate slope are  |
| color.   |  |
| a) Blue  |  |
| (b) Green  | 10.  |
| c) Řed   | (J)  |
| √d) Black  |  |
| 19. Which of the following is not a type of  | mass in Revit? Dr. G. Balakrishnan, M.E., Ph.I   |
| a) Sweep   | Daiakrishnan, M.E., Ph.I   |
| (b) Spline   | Principal Indra Ganesan College of Engineerin  |
| c) Extrusion   | IG Valley, Madurai Main Road   |
| d) Revolve   | Manikandam, Trichy-620 012.  |
| 20. What tab contains the Import panel in  | Ribbon bar?  |
| a) Modify tab  |  |
| b) Manage tab  |  |
| c) Collaborate tab   | •  |
| (d)) Insert tab  |  |
| 21. What option(s) from the choice below   | are available in the In-Place Mass editor  |
| mode?  | was a wanted in the life i lace lyings cultur  |
| a) Line tool   |  |
| b) Circle tool   |  |
| c) Rectangle tool  |  |
|  |  |
| (d) All of the above   |  |
|  |  |
| 22. When no model elements are selected,   | the Dyenovice relette dienless   |
|  | the 1 toperties patette displays   |
| a) Nothing   |  |
| (b) View properties  |  |
| c) Editing tools   | d) None of the above   |
| -,   | a, i tolle of the above  |



# Indra Ganesan

# COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

#### 23. .To add mullions to a certain panel you can place a mullion

- (a) Continuously along a grid line
  - b) Even on all empty grids
  - c) Continuously along a segment of a grid line
  - d) All of the above
- 24. The option to load component families into your project is on which tab in Ribbon Bar?
  - (a) Insert tab
  - b) Massing & Site tab
  - c) View tab
  - d) Collaborate tab
- 25. Sketches for railings can consist of \_\_\_\_\_
  - (a) Lines that cross
    - b) A series of connected lines
    - c) Overlapping lines
    - d) All of the above

0

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



#### Academic Year 2018-2019 - Odd Semester

Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Data Mining"

#### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. Which of the following refers to the problem of finding abstracted patterns (or structures) in the unlabeled data?
  - A. Unsupervised learning
  - B. Hybrid learning
  - C. Reinforcement learning
  - D. Supervised learning
- 2. Which of the following is an essential process in which the intelligent methods are applied to extract data patterns?
  - A. Warehousing
  - B. Data Mining
  - C. Text Mining
  - D. Data Selection
- 3. What is KDD in data mining?
  - A. Knowledge Discovery Database
  - B. Knowledge Discovery Data
  - C. Knowledge Data definition
  - D. Knowledge data house

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering ig Valley, Madurai Main Road Manikandam, Trichy-620 012.



#### Academic Year 2018-2019 - Odd Semester

- 4. For what purpose, the analysis tools pre-compute the summaries of the huge amount of data?
  - A. In order to maintain consistency
  - B. For authentication
  - C. For data access
  - D. To obtain the queries response
- 5. What are the functions of Data Mining?
  - A. Association and correctional analysis classification
  - B. Prediction and characterization
  - C. Cluster analysis and Evolution analysis
  - D. All of the above
- 6. Which of the following statements is incorrect about the hierarchal clustering?
  - A. The hierarchal type of clustering is also known as the HCA
  - B. The choice of an appropriate metric can influence the shape of the cluster
  - C. In general, the splits and merges both are determined in a greedy manner
  - D. All of the above
- 7. Which one of the following can be considered as the final output of the hierarchal type of clustering?
  - A. A tree which displays how the close thing are to each other
  - B. Assignment of each point to clusters
  - C. Finalize estimation of cluster centroids
  - D. None of the above

Dr. G. Balakrichnan M. R. PhiD.,

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



#### Academic Year 2018-2019 - Odd Semester

| 8. Suppose | one wants  | to predict | the number   | r of newborns | according t | o the size | of storks' |
|------------|------------|------------|--------------|---------------|-------------|------------|------------|
| population | by perforn | ning super | vised learni | ng            |             |            |            |

- pulation by performing supervised learning

  A. Structural equation modeling
- B. Clustering
- C. Regression
- D. Classification
- 9. Which of the following statements is correct about data mining?
  - A. It can be referred to as the procedure of mining knowledge from data
  - B. Data mining can be defined as the procedure of extracting information from a set of the data
  - C. The procedure of data mining also involves several other processes like data cleaning, data transformation, and data integration
  - D. All of the above
- 10. In data mining, how many categories of functions are included?
  - A. 5
  - B. 4
  - C. 2
  - D. 3
- 11. The analysis performed to uncover the interesting statistical correlation between associated -attributes value pairs are known as the \_\_\_\_\_\_.
  - A. Mining of association
  - B. Mining of correlation
  - C. Mining of clusters
  - D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



### Academic Year 2018-2019 - Odd Semester

- 12. Which of the following can be considered as the classification or mapping of a set or class with some predefined group or classes?
  - A. Data set
  - B. Data Characterization
  - C. Data Sub Structure
  - D. Data Discrimination
- 13. The classification of the data mining system involves:
  - A. Database technology
  - B. Information Science
  - C. Machine learning
  - D. All of the above
- 14. The issues like efficiency, scalability of data mining algorithms comes under\_\_
  - A. Performance issues
  - B. Diverse data type issues
  - C. Mining methodology and user interaction
  - D. All of the above
- 15. Which of the following correctly refers the data selection?
  - A. A subject-oriented integrated time-variant non-volatile collection of data in support of management
  - B. The actual discovery phase of a knowledge discovery process
  - C. The stage of selecting the right data for a KDD process
  - D. All of the above

Dr. G. Balakras at the Miller

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



#### Academic Year 2018-2019 - Odd Semester

- 16. Which one of the following can be considered as the correct application of the data mining?
  - A. Fraud detection
  - B. Corporate Analysis & Risk management
  - C. Management and market analysis
  - D. All of the above
- 17. Which one of the following correctly refers to the Class study in the data cauterization?
  - A. Final class
  - B. Study class
  - C. Target class
  - D. Both A and C
- 18. Which of the following also used as the first step in the knowledge discovery process?
  - A. Data selection
  - B. Data cleaning
  - C. Data transformation
  - D. Data integration
- 19. Which of the following refers to the steps of the knowledge discovery process, in which the several data sources are combined?
  - A. Data selection
  - B. Data cleaning
  - C. Data transformation
  - D. Data integration

5

Dr. G. Balakrishnan, M.E., Philipper Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



#### Academic Year 2018-2019 - Odd Semester

- 20. Which one of the following issues must be considered before investing in data mining?
  - A. Compatibility
  - B. Functionality
  - C. Vendor consideration
  - D. All of the above
- 21. In certain cases, it is not clear what kind of pattern need to find, data mining should :
  - A. Try to perform all possible tasks
  - B. Perform both predictive and descriptive task
  - C. It may allow interaction with the user so that he can guide the mining process
  - D. All of the above
- 22. Which of the following can be considered as the correct process of Data Mining?
  - A. Infrastructure, Exploration, Analysis, Interpretation, Exploitation
  - B. Exploration, Infrastructure, Analysis, Interpretation, Exploitation
  - C. Exploration, Infrastructure, Interpretation, Analysis, Exploitation
  - D. Exploration, Infrastructure, Analysis, Exploitation, Interpretation
- 23. Which of the following statements about hierarchal clustering is incorrect?
  - A. The hierarchal clustering can primarily be used for the aim of exploration
  - B. The hierarchal clustering should not be primarily used for the aim of exploration
  - C. Both A and B
  - D. None of the above

Dr. G. Balakrishnan, M.E., Ph. D. Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



#### Academic Year 2018-2019 - Odd Semester

- 24. Which one of the following can be defined as the data object which does not comply with the general behavior (or the model of available data)?
  - A. Evaluation Analysis
  - B. Outliner Analysis
  - C. Classification
  - D. Prediction
- 25. Which of the following statement is true about the classification?
  - A. It is a measure of accuracy
  - B. It is a subdivision of a set
  - C. It is the task of assigning a classification
  - D. None of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



## Academic Year 2018-2019 - Odd Semester

## Value Added Course

"Data Mining"

#### ANSWER KEY

| 1   | A | 6.   | D | 11 | В | 16 | D | 21 | C |
|-----|---|------|---|----|---|----|---|----|---|
| 2   | В | 7    | A | 12 | D | 17 | C | 22 | A |
| 3   | A | 8    | C | 13 | D | 18 | В | 23 | A |
| 4 , | D | 9    | D | 14 | A | 19 | D | 24 | В |
| 5   | D | 10 . | C | 15 | С | 20 | D | 25 | В |

**VAC Coordinator** 

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



Academic Year 2018-2019 - Odd Semester

Name of the Student: Thatik A

Year/Sem: 🗓 | 🗸

AU Register Number: 811216104038

Value Added Course on "Data Mining"

## MCO QUESTIONS (25X4 = 100 Marks)

- 1. Which of the following refers to the problem of finding abstracted patterns (or structures) in the unlabeled data?
  - A. Unsupervised learning
  - B. Hybrid learning
  - C. Reinforcement learning
  - D. Supervised learning
- 2. Which of the following is an essential process in which the intelligent methods are applied to extract data patterns?
  - A. Warehousing
  - B Data Mining
  - C. Text Mining
  - D. Data Selection
- 3. What is KDD in data mining?
  - A Knowledge Discovery Database
  - B Knowledge Discovery Data
  - C. Knowledge Data definition
  - D. Knowledge data house

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



## Academic Year 2018-2019 - Odd Semester

- 4. For what purpose, the analysis tools pre-compute the summaries of the huge amount of data?
  - A. In order to maintain consistency
  - B. For authentication
  - C. For data access
  - D To obtain the queries response
- 5. What are the functions of Data Mining?
  - A. Association and correctional analysis classification
  - B. Prediction and characterization
  - C. Cluster analysis and Evolution analysis
  - D. All of the above
- 6. Which of the following statements is incorrect about the hierarchal clustering?
  - A. The hierarchal type of clustering is also known as the HCA
  - B. The choice of an appropriate metric can influence the shape of the cluster
  - In general, the splits and merges both are determined in a greedy manner
  - D. All of the above
- 7. Which one of the following can be considered as the final output of the hierarchal type of clustering?
  - A tree which displays how the close thing are to each other
  - B. Assignment of each point to clusters
  - C. Finalize estimation of cluster centroids
  - D. None of the above

Dr. G. Balakrishnan, M.E., Ph.D.

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012



## Academic Year 2018-2019 - Odd Semester

- 8. Suppose one wants to predict the number of newborns according to the size of storks' population by performing supervised learning
  - A. Structural equation modeling
  - B. Clustering
  - Regression
  - D. Classification
- 9. Which of the following statements is correct about data mining?
  - A. It can be referred to as the procedure of mining knowledge from data
  - B. Data mining can be defined as the procedure of extracting information from a set of the data
  - C. The procedure of data mining also involves several other processes like data cleaning, data transformation, and data integration
  - D. All of the above
- 10. In data mining, how many categories of functions are included?
  - A. 5
  - B 4
  - C. 2
  - D. 3
- 11. The analysis performed to uncover the interesting statistical correlation between associated -attributes value pairs are known as the \_\_\_\_\_\_.
  - A. Mining of association
  - B Mining of correlation
  - C. Mining of clusters
  - D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D.
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



### Academic Year 2018-2019 - Odd Semester

- 12. Which of the following can be considered as the classification or mapping of a set or class with some predefined group or classes?
  - A. Data set
  - B. Data Characterization
  - C. Data Sub Structure
  - D. Data Discrimination
- 13. The classification of the data mining system involves:
  - A. Database technology
  - B Information Science
  - C. Machine learning
  - D. All of the above
- 14. The issues like efficiency, scalability of data mining algorithms comes under
  - A Performance issues
  - B. Diverse data type issues
  - C. Mining methodology and user interaction
    - D. All of the above
- 15. Which of the following correctly refers the data selection?
  - A. A subject-oriented integrated time-variant non-volatile collection of data in support of management
  - B. The actual discovery phase of a knowledge discovery process
  - The stage of selecting the right data for a KDD process
  - D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



### Academic Year 2018-2019 - Odd Semester

- 16. Which one of the following can be considered as the correct application of the data mining?
  - A. Fraud detection
  - B. Corporate Analysis & Risk management
  - C. Management and market analysis
  - D. All of the above
- 17. Which one of the following correctly refers to the Class study in the data cauterization?
  - A. Final class
  - B. Study class
  - G Parget class
  - D. Both A and C
- 18. Which of the following also used as the first step in the knowledge discovery process?
  - A. Data selection
  - B Data cleaning
  - C. Data transformation
  - D. Data integration
- 19. Which of the following refers to the steps of the knowledge discovery process, in which the several data sources are combined?
  - A. Data selection
  - B. Data cleaning
  - C. Data transformation
  - D: Data integration

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



## Academic Year 2018-2019 - Odd Semester

- 20. Which one of the following issues must be considered before investing in data mining?
  - A. Compatibility
  - B. Functionality
  - C. Vendor consideration
  - D. All of the above
- 21. In certain cases, it is not clear what kind of pattern need to find, data mining should :
  - A. Try to perform all possible tasks
  - B. Perform both predictive and descriptive task
  - It may allow interaction with the user so that he can guide the mining process
  - D. All of the above
- 22. Which of the following can be considered as the correct process of Data Mining?
  - A Infrastructure, Exploration, Analysis, Interpretation, Exploitation
  - B. Exploration, Infrastructure, Analysis, Interpretation, Exploitation
  - C. Exploration, Infrastructure, Interpretation, Analysis, Exploitation
  - D. Exploration, Infrastructure, Analysis, Exploitation, Interpretation
- 23. Which of the following statements about hierarchal clustering is incorrect?
  - A The hierarchal clustering can primarily be used for the aim of exploration
  - B. The hierarchal clustering should not be primarily used for the aim of exploration
  - C. Both A and B
  - D. None of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



# Academic Year 2018-2019 - Odd Semester

- 24. Which one of the following can be defined as the data object which does not comply with the general behavior (or the model of available data)?
  - A. Evaluation Analysis
  - B Outliner Analysis
  - C. Classification
  - D. Prediction
- 25. Which of the following statement is true about the classification?
  - A. It is a measure of accuracy
  - BAL is a subdivision of a set
  - C. It is the task of assigning a classification
  - D. None of the above

Dr. G. Barakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Academic Year 2018-2019 - Odd Semester

Name of the Student: Denima . A

Year/Sem: NV /Vi

AU Register Number: 811215104009

Value Added Course on "Data Mining"

MCQ QUESTIONS (25X4 = 100 Marks)

- 1. Which of the following refers to the problem of finding abstracted patterns (or structures) in the unlabeled data?
  - (A.) Unsupervised learning
  - B. Hybrid learning
  - C. Reinforcement learning
  - D. Supervised learning
- 2. Which of the following is an essential process in which the intelligent methods are applied to extract data patterns?
  - A. Warehousing
  - (B.) Data Mining
  - C. Text Mining
  - D. Data Selection
- 3. What is KDD in data mining?
  - A Knowledge Discovery Database
  - B. Knowledge Discovery Data
  - C. Knowledge Data definition
  - D. Knowledge data house

(D.:

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



### Academic Year 2018-2019 - Odd Semester

| 8. Suppose one wants to predict the number of | f newborns according to | the size of storks! |
|---|-------------------------|---------------------|
| population by performing supervised learning  | 5 40                    | THE SAME OF STOLES  |

| A. Structural equation modeling   |
|---|
| B. Clustering  Regression   |
| D. Chasification  |
| 9. Which of the following statements is correct about data mining?  |
| A. It can be referred to as the procedure of mining knowledge from data   |
| B. Data mining can be defined as the procedure of extracting information from a set of the data   |
| C. The procedure of data mining also involves several other processes like data   |
| cleaning, data transformation, and data integration   |
| D. All of the above   |
| 10. In data mining, how many categories of functions are included?  |
| A. 5  |
| B. 4  |
| ©2  |
| D. 3  |
| 11. The analysis performed to uncover the interesting statistical correlation between associated -attributes value pairs are known as the |
| A. Mining of association  |
| (B) Mining of correlation   |
| C. Mining of clusters   |
|   |

D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



### Academic Year 2018-2019 - Odd Semester

16. Which one of the following can be considered as the correct application of the data mining?

- A. Fraud detection
- B. Corporate Analysis & Risk management
- C. Management and market analysis
  All of the above

17. Which one of the following correctly refers to the Class study in the data cauterization?

- A. Final class
- B. Study class
- C. Target class
- D. Both A and C

18. Which of the following also used as the first step in the knowledge discovery process?

- A. Data selection
- B) Data cleaning
- C. Data transformation
- D. Data integration

19. Which of the following refers to the steps of the knowledge discovery process, in which the several data sources are combined?

- A. Data selection
- B. Data cleaning
- C. Data transformation

Data integration

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



## Academic Year 2018-2019 - Odd Semester

- 24. Which one of the following can be defined as the data object which does not comply with the general behavior (or the model of available data)?
  - A. Evaluation Analysis
  - (B) Outliner Analysis
  - C. Classification
  - D. Prediction
- 25. Which of the following statement is true about the classification?
  - A. It is a measure of accuracy
  - B. It is a subdivision of a set
  - C. It is the task of assigning a classification
  - D. None of the above

0

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012.



"Electrical Machine Design, Winding, Assembling, & Dismantling"

| Name of the Student:  | Year/Sem:   |  |  |  |
|---|---|--|--|--|
| AU Register Number:   |   |  |  |  |
|   | hoice Questions (25X1 = 25 Marks)   |  |  |  |
|   | AT AT A SEA FELD  |  |  |  |
| 1. Which of the following is an ad  | vantage of hydrogen cooling?  |  |  |  |
| (A) Increase in efficiency  | (B) Increase in ratings   |  |  |  |
| (C) Increase in life  | (D) All of the above  |  |  |  |
| 2 cooling is the process of cooling medium circulating within   | dissipating the armature and field winding losses to                            |  |  |  |
| (A) Direct B) Indirect  | (C) Conventional (D) Any of the above   |  |  |  |
| 3electromagnets generall  | function as holding magnets   |  |  |  |
| (A) Tractive (B) Portative  | (C) Either of the above (D) None of the above                                   |  |  |  |
| 4. Direct water cooling of rotor wi<br>(A) No mechanical difficultie<br>(C) Greater mechanical diffic | nding presents  (B) Lesser mechanical difficulties ulties (D) None of the above |  |  |  |
| 5. The winding where dummy coil   | s are used is sometimes called  |  |  |  |
| (A) Duplex winding  | (B) Triplex winding   |  |  |  |
| (C) Forced winding  | (D) None of the above   |  |  |  |
| 6. The heat dissipating capability o increased by providing which of the                              | f transformers of rating higher than 30 kVA in                                  |  |  |  |
| (A) Corrugations (B) Fin  | s (C) Tubes (D) All f the above   |  |  |  |
| 7. A current density of is a circulation of oil or with water cool                                    | used for large power transformers with forced                                   |  |  |  |
| (A) 1.5 to 2.5 A/mm <sup>2</sup>  | (R) 3.5 to 4.5.4/mm <sup>2</sup>  |  |  |  |
| (A) 1.5 to 2.5 A/mm <sup>2</sup><br>(C) 4.0 to 5.0 A/mm <sup>2</sup>                                  | (D) 5.4 to 6.2 A/mm <sup>2</sup>  |  |  |  |
| 8. D.C. servomotors are used in   |   |  |  |  |
| (A) Purely D.C. control systen  | ns (B) Purely A.C. control systems  |  |  |  |
| (C) Both D.C. and A.C. control  | systems (D) None of the above   |  |  |  |
| 9. In D.C. machine the current per brush arm should not be more than                                  |   |  |  |  |
| (A) 100 A (B) 200 A (   | C) 300 A (D) 400 A  |  |  |  |
|   |   |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



| 10. Which of the following met reaction?   |  |   |   |
|--|--|---|---|
| <ul><li>(A) Increase in length of a</li><li>(C) Compensating winding</li></ul>   | air gap at pole tips<br>gs             | (B) Increasin<br>(D) All of th          | ng reluctance of pole tips<br>e above   |
| 11. In D.C. machines, air order armature reaction, the field mm (A) Equal to that armature (C) Large in comparison v           | must be made<br>mmf (B) Les            | ss in comparie                          | son with the armature mmf   |
| 12. The weight of copper of bot in number of poles.  |  |   | s decreases with  |
| (A) Increase (B) Decreas   | e (C) Either of th                     | e above                                 | (D) None of the above   |
| 13. The stator of a D.C. machine (A) Main poles (B) I  |  | (C) Frame                               | (D) All of the above  |
| 14. A practical formula for deter<br>and high voltage winding is<br>(A) 1 + 0.2 kV mm (B) 2<br>(C) 4 + 0.7 kV mm (D) 5         | + 0.5 kV mm                            | ess of insula                           | tion between low voltage  |
| 15. D.C. windings are  (A) Sometimes 2-layer type (C) Always 2-layer type  | ` /                                    | er 2-layer type<br>e of the above       |   |
| 16. Helical windings are used in (A) Distribution transformer (C) Shell type transformers                                      | rs (B) Powe<br>(D) None                | er transformer<br>of the above          | Dr. G. Balakrishnan, M.E., Ph.  |
| 17. Dummy coil should not be use (A) Small machines (C) Either (A) or (B)  | ed in (B) Large machin (D) None of the | nes                                     | Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 18. Which of the following is the c (A) Flat-faced armature type (C) Flat-faced plunger type                                   | (B) Horse                              | pe of electro<br>shoe type<br>the above | magnets?  |
| 19. Which of the following method temperature rise under variable lo  (A) Equivalent power method (C) Method of average losses | ad conditions?<br>(B) Equiva           | to account the                          | method  |
| 20. Machines cooled by direct cool  (A) "Supercharged"  (C) "Conductor cooled"   |  | be called                               |   |



# Indra Ganesan

COLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AiCTE, NewDelhi & Affiliated to Anna University, Chennal

| (11) One stuck a          | tiai venillation   | sed for air cooling of tur<br>(B) Two sided axial ver<br>(D) All of the above | rbo-alternators?<br>ntilation |
|---------------------------|--------------------|---|-------------------------------|
| ormunated inter time coll | our, rougnness etc | e depends upon its temp   | erature and its               |
| (A) Conduction            | (B) Convection     | าท  |                               |
| (C) Radiation             | (D) Any of th      | e above   |                               |
| (11) Conductors           | (D) Semicond       | istivity are known as   | *                             |
| (C) Insulators            | (D) Supercond      | ductors   |                               |
| 24. Commercial availal    | ole medium size m  | achines have a speed ra   |                               |
| (A) 200 to 400 r.r        | o.m. (B) 600       | to 1000 mm  | nge of                        |
| (C) 1000 to 1500          | r.p.m. (D) 200     | 00 to 2500 r.p.m.   |                               |
| 25. has low               | -relative permeab  | ility and is used principa  | ally in field frames          |
| vost is or brimary        | umpertance and ex  | Itra weight is not abject   |                               |
| (A) Cast steel            | (B) Aluminium      | (C) Soft steel  | (D) Cast iron                 |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



"Electrical Machine Design, Winding, Assembling, & Dismantling"

#### ANSWER KEY

| 1 | D | 6  | D | 11 | С | 16 | В | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | A | 7  | D | 12 | A | 17 | В | 22 | C |
| 3 | В | 8  | A | 13 | D | 18 | D | 23 | D |
| 4 | С | 9  | D | 14 | D | 19 | С | 24 | D |
| 5 | C | 10 | D | 15 | С | 20 | D | 25 | D |

D. Pomatki-

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



"Electrical Machine Design, Winding, Assembling, & Dismantling"

Name of the Student: Subha. T

Year/Sem: 11 / 111

AU Register Number: 811217105029

| 81121 1103029  |
|--|
| Multiple Choice Questions (25X1 = 25 Marks)  |
| 1. Which of the following is an advantage of hydrogen cooling?  (A) Increase in efficiency (C) Increase in life  Dr. G. Balakrishnan, M.E., Ph.D., Phincipal  Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.  2 cooling is the process of dissipating the armature and field winding losses to a cooling medium circulating within the winding insulation wall  (A) Direct  B) Indirect (C) Conventional (D) Any of the above |
|  |
| electromagnets generally function as holding magnets.  (A) Tractive (B) Portative (C) Either of the above (D) None of the above  |
| 4. Direct water cooling of rotor winding presents  (A) No mechanical difficulties (B) Lesser mechanical difficulties (C) Greater mechanical difficulties (D) None of the above   |
| 5. The winding where dummy coils are used is sometimes called  (A) Duplex winding  (C) Forced winding  (D) Triplex winding  (D) Triplex winding  |
| 6. The heat dissipating capability of transformers of rating higher than 30 kVA in   |
| increased by providing which of the following?   |
| (A) Corrugations (B) Fins (C) Tubes (D) Att the above  |
| 7. A current density of is used for large power transformers with forced circulation of oil or with water cooling coils  (A) 1.5 to 2.5 A/mm² (B) 3.5 to 4.5 A/mm² (C) 4.0 to 5.0 A/mm² (D) 5.4 to 6.2 A/mm²   |
| 8. D.C. servomotors are used in  |
| (A) Purely D.C. control systems (B) Purely A.C. control systems (C) Both D.C. and A.C. control systems (D) None of the above   |
| 9. In D.C. machine the current per banch arms the 11   |
| 9. In D.C. machine the current per brush arm should not be more than (A) 100 A (B) 200 A (C) 300 A (D) 400 A   |



| 10. Which of the following methods may be adopted to reduce the effects of armature   |
|---|
| reaction?   |
| (A) Increase in length of air gap at pole tips (B) Increasing reluctance of pole tips (C) Compensating windings (D) All of the above        |
| 11. In D.C. machines, air order to prevent excessive distortion of field form by the  |
| armature reaction, the field mmf must be made   |
| (A) Equal to that armature mmf (B) Less in comparison with the armature mmf barge in comparison with the armature mmf (D) None of the above |
| 12. The weight of copper of both armature and field windings decreases with   |
| in number of poles.   |
| (A) Increase (B) Decrease (C) Either of the above (D) None of the above   |
| 13. The stator of a D.C. machine comprises of   |
| (A) Main poles (B) Interpoles (C) Frame (D) All of the above  |
| 14. A practical formula for determining the thickness of insulation between low voltage and high voltage winding is                         |
| (A) $1 + 0.2 \text{ kV mm}$ (B) $2 + 0.5 \text{ kV mm}$ (C) $4 + 0.7 \text{ kV mm}$ (D) $5 + 0.9 \text{ kV mm}$                             |
| 15. D.C. windings are   |
| (A) Sometimes 2-layer type (B) Never 2-layer type   |
| (C) lways 2-layer type (D) None of the above  |
| 16. Helical windings are used in  |
| (A) Distribution transformers (B) Power transformers  |
| (C) Shell type transformers (D) None of the above Indra Ganesan College of Engineering  |
| 17. Dummy coil should not be used in Manikandam, Trichy-620 012.  |
| (A) Small machines (B) Darge machines   |
| (C) Either (A) or (B) (D) None of the above   |
| 18. Which of the following is the commonly used type of electromagnets?   |
| (A) Flat-faced armature type (B) Horse shoe type  |
| (C) Flat-faced plunger type (D) All of the above  |
| 19. Which of the following methods does not take into account the maximum   |
| temperature rise under variable load conditions?  |
| (A) Equivalent power method (B) Equivalent current method   |
| Method of average losses (D) Equivalent torque method   |
| 20. Machines cooled by direct cooling method may be called  |
| (A) "Supercharged" (B) "Inner cooled"   |

Any of the above

(C) "Conductor cooled"

| 21. Which of the following methods is used for air cooling of turbo-alternators?   |  |  |  |  |
|--|--|--|--|--|
| (A) One sided axial ventilation (B) Two sided axial ventilation  |  |  |  |  |
| (C) Multiple inlet system (D) All of the above   |  |  |  |  |
|  |  |  |  |  |
| 22. The heat dissipated by from a surface depends upon its temperature and its   |  |  |  |  |
| characteristics like colour, roughness etc.  |  |  |  |  |
| (A) Conduction (B) Convection  |  |  |  |  |
| (C) Radiation (D) Any of the above   |  |  |  |  |
| (") > ==== 0 = ==== ======================   |  |  |  |  |
| 23. Materials exhibiting zero value of resistivity are known as  |  |  |  |  |
| (A) Conductors (B) Semiconductors  |  |  |  |  |
| (C) Insulators (D) Superconductors   |  |  |  |  |
| of the state of th |  |  |  |  |
| 24. Commercial available medium size machines have a speed range of  |  |  |  |  |
| (A) 200 to 400 r.p.m. (B) 600 to 1000 r.p.m.   |  |  |  |  |
| (C) 1000 to 1500 r.p.m. (D) 2000 to 2500 r.p.m.  |  |  |  |  |
| 1 2300 f.p.m.  |  |  |  |  |
| 25. has low-relative permeability and is used principally in field frames  |  |  |  |  |
| when cost is of primary importance and extra weight is not objectionable.  |  |  |  |  |
| (A) Cast siee! (B) Aluminium (C) 0 0 1   |  |  |  |  |
| (b) Authorities (c) Soft steel (D) Cast iron   |  |  |  |  |

Dr. G. Balakrishnar M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

"Electrical Machine Design, Winding, Assembling, & Dismantling"

| Traine of the Student: 29WARYAK Year/Sem: (11)                                     |
|--|
| AU Register Number: 811216105007   |
| Multiple Choice Questions (25X1 = 25 Marks)  |
|  |
| 1. Which of the following is an advantage of hydrogen cooling?                     |
| (A) Increase in efficiency (B) Increase in ratings                                 |
| (C) Increase in life (D) All of the above  |
| 2 cooling is the process of dissipating the armature and field winding losses to a |
| cooling medium circulating within the winding insulation wall                      |
| (A) Direct B) Indirect (C) Conventional (D) Any of the above                       |
| 3electromagnets generally function as holding magnets.                             |
| (A) Tractive (B) Portative (C) Either of the above (D) None of the above           |
| 4. Direct water cooling of rotor winding presents                                  |
| (A) No mechanical difficulties (B) Lesser mechanical difficulties                  |
| (C) Greater mechanical difficulties (D) None of the above                          |
| 5. The winding where dummy coils are used is sometimes called                      |
| (A) Duplex winding (B) Triplex winding   |
| (C) Forced winding One of the above  |
| 6. The heat dissipating capability of transformers of rating higher than 30 kVA in |
| increased by providing which of the following?                                     |
| (A) Corrugations (B) Fins (C) Tubes (D) All f the above                            |
| 7. A current density of is used for large power transformers with forced           |
| circulation of on or with water cooling coils                                      |
| (A) 1.5 to 2.5 A/mm <sup>2</sup> (B) 3.5 to 4.5 A/mm <sup>2</sup>                  |
| (C) 4.0 to 5.0 A/mm <sup>2</sup> (D) 5.4 to 6.2 A/mm <sup>2</sup>                  |
| 8. D.C. servomotors are used in  |
| (A) Purely D.C. control systems (B) Purely A.C. control systems                    |
| (C) Both D.C. and A.C. control systems (D) None of the above                       |
| 9. In D.C. machine the current per brush arm should not be more than               |
| (A) 100 A (B) 200 A (C) 300 A (D) 400 A  |
|  |

8.

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



| 10. Which of the following methods may be adopted to reduce the effects of armature reaction?  |
|--|
| (A) Increase in length of air gap at pole tips (B) Increasing reluctance of pole tips (C) Compensating windings  (B) All of the above      |
| 11. In D.C. machines, air order to prevent excessive distortion of field form by the   |
| armature reaction, the field mmf must be made  |
| (A) Equal to that armature mmf (B) Less in comparison with the armature mmf arge in comparison with the armature mmf (D) None of the above |
| 12. The weight of copper of both armature and field windings decreases with  |
| in number of poles.  (A) Increase (B) Decrease (C) Either of the above (D) None of the above   |
| 13. The stator of a D.C. machine comprises of  |
| (A) Main poles (B) Interpoles (C) Frame (D) All of the above   |
| 14. A practical formula for determining the thickness of insulation between low voltage and high voltage winding is                        |
| $\triangle$ (A) 1 + 0.2 kV mm (B) 2 + 0.5 kV mm  |
| (C) + 0.7 kV mm (D) 5 + 0.9 kV mm  |
| 15. D.C. windings are  |
| (A) Sometimes 2-layer type (B) Never 2-layer type  |
| (C) Always 2-layer type (D) None of the above  |
| 16. Helical windings are used in   |
| (A) Distribution transformers (B) ower transformers Dr. G. Balakrishnan, M.E. Ph.D.  |
| (C) Shell type transformers (D) None of the above Principal  |
| 17. Dummy coil should not be used in IG Valley, Madurai Main Road  |
| 17. Dummy coil should not be used in  (A) Small machines  (B) Large machines  IG Valley, Madurai Main Road  Manikandam, Trichy-620 012.    |
| (C) ither (A) or (B) (D) None of the above   |
| 18. Which of the following is the commonly used type of electromagnets?  |
| (A) Flat-faced armature type  (B) Horse shoe type  |
| (C) Flat-faced plunger type All of the above   |
| 19. Which of the following methods does not take into account the maximum  |
| temperature rise under variable load conditions?   |
| (A) Equivalent power method (B) Equivalent current method  |
| Method of average losses (D) Equivalent torque method  |
| 20. Machines cooled by direct cooling method may be called   |
| (A) "Supercharged" (B) "Inner cooled"  |

Any of the above

(C) "Conductor cooled"



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| (21) One 3                                    | e following met<br>ided axial ventil<br>ole inlet system | ation (B)   | r air cooling of tur<br>I'wo sided axial ver<br>All of the above | bo-alternators?      |
|---|--|---|--|----------------------|
| 22. The heat diss                             | ipated by from   | a surface done  | nds upon its temp  |                      |
| characteristics li                            | ke colour, rong  | hness ato   | are about its temb   | erature and its      |
| (A) Condu                                     | iction (B)   | Convection  |  |                      |
| (C) Radiat                                    | ion (D)  | Any of the above  | re   |                      |
| 23. Materials exh<br>(A) Condu<br>(C) Insulat | ctors (B)  | lue of resistivity<br>Semiconductors<br>Superconductors |  | •                    |
| 24. Commercial                                | available medit  | um size machin  | es have a speed ra   | nga of               |
| (21) 200 10                                   | 700 t.p.m.   | LB) 600 to 10   | ()() r n m   | uge or               |
| (C) 1000 to                                   | 1500 r.p.m.  | 2000 to 2   | 2500 r.p.m.  |                      |
| 25. h   | as low-relative  | normanbility  |  | ally in field frames |
| when cost is of pr                            | mary importan  | permeanily a  | ad is used princip:<br>eight is not object                       | ally in field frames |
| (A) Cast ste                                  | el (R)   | are and extra M   | eight is not object  | ionable.             |
| ( - )   | (D) F  | Aluminium   | (C) Solt steel   | (D) Gast iron        |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



"Electrical Machine Design, Winding, Assembling, & Dismantling" Name of the Student: Keerthana AU Register Number: 811215 105014 Multiple Choice Questions (25X1 = 25 Marks) Dr. G. Balakrishnan, M.E., Ph.D., 1. Which of the following is an advantage of hydrogen cooling? Principal Indra Ganesan College of Engineering (A) Increase in efficiency (B) Increase in ratings (C) Increase in life IG Valley, Madurai Main Road All of the above Manikandam, Trichy-620 012. \_\_\_\_ cooling is the process of dissipating the armature and field winding losses to a cooling medium circulating within the winding insulation wall (A) Direct M Indirect (C) Conventional (D) Any of the above \_\_ electromagnets generally function as holding magnets. (A) Tractive B Portative (C) Either of the above (D) None of the above 4. Direct water cooling of rotor winding presents (A) No mechanical difficulties (B) Lesser mechanical difficulties Greater mechanical difficulties (D) None of the above 5. The winding where dummy coils are used is sometimes called (A) Duplex winding (B) Triplex winding (C) Forced winding (D) None of the above 6. The heat dissipating capability of transformers of rating higher than 30 kVA in increased by providing which of the following? (A) Corrugations (B) Fins (C) Tubes (D) All f the above 7. A current density of \_\_\_\_\_ is used for large power transformers with forced circulation of oil or with water cooling coils **A** 1.5 to 2.5 A/mm<sup>2</sup> (B)  $3.5 \text{ to } 4.5 \text{ A/mm}^2$ (C)  $4.0 \text{ to } 5.0 \text{ A/mm}^2$ (D) 5.4 to 6.2 A/mm<sup>2</sup> 8. D.C. servomotors are used in (APurely D.C. control systems (B) Purely A.C. control systems (C) Both D.C. and A.C. control systems (D) None of the above 9. In D.C. machine the current per brush arm should not be more than

(A) 100 A

(B) 200 A

(C) 300 A

(D) 400 A

| 10. Which of the following methods may be adopted to reduce the effects of armature reaction?   |
|---|
| (A) Increase in length of air gap at pole tips (B) Increasing reluctance of pole tips (C) Compensating windings All of the above  |
| 11. In D.C. machines, air order to prevent excessive distortion of field form by the armature reaction, the field mmf must be made  (A) Equal to that armature mmf (B) Less in comparison with the armature mmf (D) None of the above |
|   |
| 12. The weight of copper of both armature and field windings decreases with in number of poles.   |
| (A) Increase (B) Decrease (C) Either of the above (D) None of the above   |
| 13. The stator of a D.C. machine comprises of (A) Main poles (B) Interpoles (D) All of the above  |
| 14. A practical formula for determining the thickness of insulation between low voltage and high voltage winding is  (A) 1 + 0.2 kV mm (B) 2 + 0.5 kV mm (C) 4 + 0.7 kV mm (B) 5 + 0.9 kV mm  |
| 15. D.C. windings are   |
| (A) Sometimes 2-layer type (B) Never 2-layer type (D) None of the above  Dr. G. Balakrishnan, M.E., Ph.D.,  |
| 16. Helical windings are used in  (A) Distribution transformers (C) Shell type transformers (D) None of the above  Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.            |
| 17. Dummy coil should not be used in  (A) Small machines (C) Either (A) or (B)  (D) None of the above   |
| 18. Which of the following is the commonly used type of electromagnets?   |
| Flat-faced armature type (B) Horse shoe type (C) Flat-faced plunger type (D) All of the above   |
| 19. Which of the following methods does not take into account the maximum   |

(B) Equivalent current method

(D) Equivalent torque method

(B) "Inner cooled"

Any of the above

temperature rise under variable load conditions?

20. Machines cooled by direct cooling method may be called

(A) Equivalent power method

Method of average losses

(A) "Supercharged"

(C) "Conductor cooled"



| 21.            | Which of the following                            | g methods is us               | ed for air cooling of tu | rbo-alternators?      |
|----------------|---|-------------------------------|--------------------------|-----------------------|
|                | (A) One sided axial                               | ventilation                   | (B) Two sided axial ve   | entilation            |
|                | (C) Multiple inlet sy                             | stem                          | All of the above         |                       |
| 22. T<br>chara | he heat dissipated by<br>acteristics like colour, | from a surface roughness etc. | depends upon its tem     | perature and its      |
|                | (A) Conduction                                    |                               |                          |                       |
|                | (C) Radiation                                     | Any of th                     |                          |                       |
| 23. M          | aterials exhibiting ze                            | ro value of resi              | stivity are known as _   |                       |
|                | (A) Conductors                                    | (B) Semicond                  | uctors                   |                       |
|                | (C) Insulators                                    | Supercon                      | ductors                  |                       |
| <b>24.</b> C   | ommercial available                               | medium size m                 | achines have a speed r   | ange of               |
|                | (A) 200 to 400 r.p.m.                             | (B) 60                        | 0 to 1000 r.p.m.         |                       |
|                | (C) 1000 to 1500 r.p.                             | m. <b>Ø</b> 40                | 00 to 2500 r.p.m.        |                       |
|                | has low-re  | lative permeab                | ility and is used princi | pally in field frames |
| vhen           | cost is of primary im                             | portance and e                | xtra weight is not obje  | ctionable.            |
|                | (A) Cast steel                                    | <b>A</b> luminiur             | n (C) Soft steel         | (D) Cast iron         |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madural Main Road

Manikandam Thury-620 012

Name of the Student:

Year/ Sem:

AU Register Number:

#### Value Added Course on "PCB DESIGNING"

| value Augeu  | Course on "PCB DESIGNING"  |
|--|--|
| MCQ QU   | ESTIONS $(25X1 = 25 \text{ Marks})$  |
| <ol> <li>Which phenomenon is not reduce provided by power and return plantal a) Radiation</li> </ol> | ted by the circuit paths of lowest impedance especially nes for shielding purposes?  b) Convection |
| c) Noise   | d) Crosstalk   |
| 2. High current circuits are purpos  | ely located or placed near the adm of DC Din   |
| accordance to the supply lines for   | r  |
| a) Removal of heat   | b) Isolation of stray current  |
| c) Reduction of path length  | d) All of the above  |
| Resistance Soldering!?   | oldering methods is also renowned as 'High Frequency   |
| a) Iron Soldering  |  |
| c) Torch Soldering   | b) Furnace Soldering   |
|  | d) Electrical Soldering ed approaches belongs to the category of In-circuit                        |
| Testing?   | approaches belongs to the category of In-circuit   |
| a) Impedance Testing   | b) Component Testing   |
| c) Apply Signal and check output   | d) All of the above  |
| 5. Which type of solder ability testing  | g is carried out for the generation of cold-   |
| and to intiffer 210 if of Mile of 2166f.   | metal specimen in a bath of molten solder?   |
| a) Solder Datif Testing  | b) Meniscus Rise Testing   |
| c) Solder Iron Testing   | d) None of the above   |
| 6. What is / are the necessity / is to pr  | rovide guarding to precision differential amplifiers?  |
| a) To increase leakage resistance  | o) To reduce capacitance between signal  |
| c) Both a and b  | conductors &ground   |
|  | d) None of the above   |
| designing digital PCBs?  | assertions is not away of cross-talk reduction while   |
| a) Decrease in the distance between conductors   | b) Shielding of clock line switch guard strips   |
| c) Reduction in the loop area of circuits  | d) A void running of parallel traces for longer  |
|  | distances especially for asynchronous signals packages does not belong to the category of 'Small   |
| Outline Package'?  | parkages does not belong to the category of 'Small   |
| a) SO  | b) SOP   |
| c) SOT   | d) SON   |
| WILL ADE AS WELL AS DAC!   | ssertions is not grounding consideration associated  |
| a) Analog side to analog ground  | b) Digital side to digital ground  |
| connection of men along leads  | d) Reduction of inductive loop area between power and return traces                                |
| to single point reference  10. Which among the below stated  | devices / equipments   |
| of ground and supply line noise espec  | cially in TTL/CMOS/ECL PCB designing rishnan, M.E., The  |
|  | of Engineering   |
|  | Indra Ganesan College of Edg<br>IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012-        |
|  | Manikandani  |

| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  | Artificated to Anna University. Chennai  |
|--|--|
| <ul> <li>a) Coupling capacitor</li> </ul>  | b) Decoupling capacitor  |
| c) Snubber circuits  | d) All of the above  |
| 11. Which among the below  | Specified condition in manufacture   |
|  | W ODDUSIC HIPCHOR WITH THA HALL P '1)  |
|  | signing?   |
| a)Z <sub>even</sub> >Z <sub>odd</sub>  | b) $Z_{\text{odd}} \geq 0.5 Z_{\text{even}}$   |
| c) Z <sub>odd</sub> ≥0.8Z <sub>even</sub> 12. Which terminology of PA  | d) $Z_{\text{odd}} = Z_{\text{even}}$  |
| supporting photograph'   | CB represents a thin photo-sensitive polymer by  |
| a) Prepreg   | ern of single traces or IC pads for etching?   |
| c) Photo-resist  | b) Etching   |
|  | d) Solder mask   |
| manner for digital circuits?   | ut to occur if PCB is not designed properly in a confined  |
|  |  |
| Interference   | C) Ground & Supply-line Noise D) Electromagnetic   |
| a) A&B   | b) B&C   |
| c) C&D   | d) A,B,C, D  |
| 14. Which among the following  | assists in obtaining the day of the same o |
|  |  |
| A) width of signal lines B) Dis  | stance between signal line and ground line C) Signal Delays  |
| 2  | and ground fine C) Signal Delays   |
| a) A&B   | b) B&C   |
| c) C&D  15. What should be the resistance  | d) A,B,C, D  |
| thickness of standard are sistance   | ce of 0.6 mmwideconductorwith15 cmlengthand25 μm   |
| a) 118.2m $\Omega$   | $(Assume p = 1.7241 \times 10^{-6} (at 20^{\circ} C)$  |
| c) 172.4mΩ   | b) 138.2mΩ   |
| -  | d) 192.4mΩ<br>be evaluated on the basis of   |
| a) PCB size & material   | b) Number of layers  |
| c) Vi as on PCB  | d) All of the above  |
| 17. Which factors contribute to  | the occurrence of mechanical stress?   |
| a) Resonance   | b) Cracked Solder Joints   |
| c) Both a and b  | d) None of the above   |
| 18. Which type of PCB requires   | minimum saldavina  |
| The state of the s | uitles:  |
| <ul><li>a) Single-sided PCB</li><li>c) Both a and b</li></ul>  | b) Double-sided PCB  |
|  | d) None of the above   |
| provided with large conduction   | if the separate power and ground planes are  |
| a) Increase in self-inductance   | riaces for better decoupling in PCB layouts?   |
| c) Reduction in self-inductance  | b) Reduction in self-inductance  |
| e) Stability in self-inductance  | d) Reduction in self-inductance  |
| 20. Which terminology of PCB repu  | f) None of the above   |
| photographic pattern of single trac  | resents a thin photo-sensitive polymer by supporting   |
| a) Prepreg   |  |
| c) Photo-resist  | b) Etching   |
|  | d) Solder mask<br>ioned packages does not belong to the category of  |
| 'Small Outline Package'?   | toned packages does not belong to the category of  |
| a) SO  | LICOD  |
| c) SOT   | b) SOP   |
|  | d) SON ng is carried out for the generation of solder  |
| sampled to immersion of wire or she  | est metal specimen in al. d. a.  |
| a) Solder Bath Testing   | b) Meniscus Rise Testing Dr. G. Balakrishnan, M.E., Ph.D   |
|  | U) IVICHISCUS KISE Lesting VI. U. Dans   |

21.

22.

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



EGE OF Madurai Main Road (NH-458), Manikandam, Trichy-1 Approved by AICTE, NewDeihi & Affiliated to Anna University, Chennai

- c) Solder Iron Testing
- d) None of the above
- Which among the below stated soldering methods is also renowned as 'High 23. Frequency Resistance Soldering'?
  - a) Iron Soldering

b) Furnace Soldering

c) Torch Soldering

- d) Electrical Soldering
- Which among the below mentioned approaches belongs to the category of In-circuit Testing?
  - a) Impedance Testing
- b) Component Testing
- c) Apply Signal and check output
- d) All of the above
- High current circuits are purposely located or placed near the edge of PCB in 25. accordance to the supply lines for\_
  - a) Removal of heat

- b) Isolation of stray current
- c) Reduction of path length
- d) All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Value Added Course on "PCB DESIGNING"

#### ANSWER KEY

| 1 | В | 6  | C | 11 | C | 16 | D | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | A | 7  | Α | 12 | С | 17 | С | 22 | В |
| 3 | D | 8  | D | 13 | С | 18 | В | 23 | D |
| 4 | D | 9  | D | 14 | A | 19 | В | 24 | D |
| 5 | В | 10 | В | 15 | C | 20 | С | 25 | A |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Pn.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Name of the Student: Meena.V

Year Sem: IV VI

AU Register Number: 8112151 06027

Value Added Course on "PCB DESIGNING"

|   | ( )   |
|---|---|
| MCO OUE   | STIONS (25X1 = 25 Marks)  |
| I. Which phenomenon is not reduced                                    | diameter alamaia made a situation at la management de la                                    |
| provided by power and return plane                                    | by the circuit paths of lowest impedance especially   |
| a) Radiation  | s for spicialing purposes:  |
|   | Convection  |
| e) Noise  | d) Crosstalk  |
| 2. High current circuits are purposel                                 | y located or placed near the edge of PC Bin   |
| accorpance to the supply lines for                                    |   |
| Removal of heat   | b) Isolation of stray current   |
| c) Reduction of path length   | d) All of the above   |
| 3. Which among the below stated sol                                   | dering methods is also renowned as 'High Frequency  |
| Resistance Soldering'? a) Iron Soldering                              | 3 \ 20  |
|   | b) Furnace Soldering  |
| 4 Which among the believe of  | diffectrical Soldering d approaches belongs to the category of In-circuit                   |
| resting;  | approaches belongs to the category of In-circuit  |
| a) Impedance Testing  | b) Component Testing  |
| c) Apply Signal and check output                                      | Lat All of the above  |
| 5. Which type of solder ability testing                               | is carried out for the generation of solder sample  |
| upe to immersion of wire or sheet i                                   | metal specimen in a bath of molten solder?  |
| Appropriate Bath Testing  | b) Meniscus Rise Testing  |
| c) Solder Iron Testing  | d) None of the above  |
| b. What is / are the necessity / is to pr                             | ovide guarding to precision differential amplifiers?  |
| a) To increase leakage resistance                                     | b) To reduce capacitance between signal   |
| Doth a and b  | conductors Aground  |
| 7 Which among the between west and                                    | d) None of the above.   |
| acsisting digital LCR2.   | l assertions is not away of cross-talk reduction while                                      |
| Decrease in the distance between conductors                           | b) Shielding of clock line swatch goard steps   |
| c) Reduction in the loop area of                                      | d) A void running of parallel traces for longer   |
| circuits  | distances especially for mean distance in a contract  |
| 8. Which among the below mentioned Outline Package'?                  | packages does not belong to the category of 'Small  |
| a) SO   | h) SOP-7  |
| c) SOT  | b) SOP-   |
| 9. Which among the below specified a                                  | secrtions is not grounding consideration associated   |
| with ADC as well as DAC?  |   |
| a) Analog side to analog ground                                       | Digital side to digital ground  |
| c) Use of separate power supply and connection of their ground leads  | d) Reduction of inductive loop area between power and return traces                         |
| 10. Which among the below stated of ground and supply line noise espe | devices / equipments are preferred for climination equally in TTL/CMOS / ECL PCB designing? |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
——IG Valley, Madurai Main Road

Manikandam Trichy-620 012



22.

COLLEGE OF ENGINEERING Madural Main Road (NH-458), Manikandam, Trichy-12.

Approved by AICTE, NewDelhi & Alfillated to Anna University, Changas

| a) Coupling capacitor  | b) Decoupling capacitor   |
|--|---|
| Smubber circuits   | d) All of the above   |
|  | specified condition is precise in the cross talk verification                 |
| mechanism using logic flow interference in digital PCB d   | in opposite direction with the limit of avoiding dangerous esigning?          |
| a)Zzago Zodi   | b) Zood 20.5 Zoon   |
| 17 Jug 20.8 Zeven  | d) $Z_{\text{odd}} = Z_{\text{over}}$   |
|  | CB represents a thin photo-sensitive polymer by                               |
|  | ern of single traces or IC pads for etching?                                  |
| a) Prepreg   | b) Etching  |
| c) Photo-resist  | 4) Rolder mask  |
|  | ut to occur if PCB is not designed properly in a confined                     |
| manner for digital circuits?   |   |
| A) Diffraction B) Refraction   | C) Ground & Supply-line Noise D) Electromagnetic                              |
| Interference   | A 5 22 44 579   |
| a) A&B   | b) B&C  |
|  | d) A,B,C, D   |
| 14. Which among the followin in reflection phase while design  | g assists in obtaining the desired value of wave impedance                    |
|  | istance between signal line and ground line C) Signal Delays                  |
| D) Double Pulsing  | issance between signal line and ground line C) signal Detays                  |
| a) A&B   | b) B&C  |
| Dat C&D  | d) A.B.C. D   |
| 15. What should be the resistan  | ice of 0.6 mmwideconductorwith15 cmlengthand25 μm                             |
|  | iil? (Assume $\rho = 1.7241 \times 10^{-6} (at 20^{\circ} C)$                 |
| a) 1 <u>18-2</u> mΩ  | b) 138,2mΩ  |
| LY 173,4mΩ   | d) 192.4mΩ  |
| 16. The actual cost of PCB ca  | b) Number of layers  Dr. G. Balakrishnan, M.E., Ph.D.                         |
| a) PCB size & material   | b) Number of layers   |
| c) Vi as on PCB  | Principal Principal Indra Ganosan Call  |
| 17. Which factors contribute   | o the occurrence of mechanical stress?  Indra Ganesan College of Engineering  |
| a) Resonance   | b) Cracked Solder Joints  IG Valley, Madurai Main Road  Manikandora Till Land |
| Brith a and b  | d) None of the above  Manikandam, Trichy-620 012                              |
| 18. Which type of PCB requir   | es minimum soldering on component side in order to                            |
| avoid replacement oriented diff  |   |
| Single-sided PCB   | b) Double-sided PCB   |
| 'c) Both a and b   | d) None of the above  |
|  | ed if the separate power and ground planes are                                |
| provided with large conducting   | urfaces for botter decoupling in PCB layouts?                                 |
| a) Increase in self-inductance   | by typication in self-inductance  |
| c) Reduction in self-inductance  | d) Reduction in self-inductance   |
| e) Stability in self-inductance  | f) None of the above  |
|  | presents a thin photo-sensitive polymer by supporting                         |
| photographic pattern of single tr  | · ·   |
| a) Prepreg   | b) Etching  |
| Thylo-resist   | d) Solder mask  |
|  | itioned packages does not belong to the category of                           |
| 'Small Outline Package'?   |   |
| a) SO  | b) SOP  |
| c) SOT   | b) SOP  |
| 22. Which type of solder ability tes   | ting is carried out for the generation of solder                              |
|  | heet metal specimen in a bath of molten solder?                               |
| a) Solder Bath Testing   | Moniscus Rise Testing   |
| THE PROPERTY AND THE PARTY AND THE PROPERTY AND THE PROPE | 2/13/9/1000   |



Madural Main Hoad (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDolhi & Affiliated to Anna University, Chennal

- e) Solder from Testing
- d) None of the above
- Which among the below stated soldering methods is also renowned as 'High 23. Frequency Resistance Soldering'?

> 17on Soldering

b) Furnace Soldering

c) Torch Soldering

- d) Electrical Soldering
- Which among the below mentioned approaches belongs to the category of In-circuit Testing?
  - a) Impedance Testing

- b) Component Testing
- c) Apply Signal and check output

All of the above

High current circuits are purposely located or placed near the edge of PCB in accordance to the supply lines for\_

- b) Isolation of stray current
- c) Reduction of path length
- d) All of the above

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Name of the Student:

Year/Sem:

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

**AU Register Number:** 

b) Immobilizing.

#### Value Added Course

|    | v alue Auu,   | eu Course                  |  |  |  |  |  |  |
|----|---|----------------------------|--|--|--|--|--|--|
|    | "Introduction to CAD, CAM & Practical CNC Machining"  |                            |  |  |  |  |  |  |
|    | MCQ QUESTIONS (25X4 = 100 Marks)  |                            |  |  |  |  |  |  |
| 1. | The Data Panel is accessed by clicking its id a) Marking menu.  | con on the:<br>c) Browser. |  |  |  |  |  |  |
|    | b) Application Bar.   | d) Tool bar.               |  |  |  |  |  |  |
| 2. | If a sketch entity is blue, it means that it: a) Has a constraint.  | c) Has a dimension         | on.  |  |  |  |  |  |
|    | b) Underdefined.  | d) Is a construction       | n entity   |  |  |  |  |  |
| 3. | When starting from a new, empty design, we extruding a sketch profile into a solid or a sua) Named Views.   |                            | owser appears after  |  |  |  |  |  |
|    | b) Sketches.  | d) Origin.                 |  |  |  |  |  |  |
| 4. | Which of the following can be applied while profile?  | creating an Extrude        | ed feature from a sketch   |  |  |  |  |  |
|    | a) Shell.   | c) Fillet.                 |  |  |  |  |  |  |
|    | b) Draft  | d) Chamfer.                |  |  |  |  |  |  |
| 5. | One way that Projected drawing views differ a) Position alignment of Projected views is locked to the parent view. b) Projected views can have a scale which is different from the parent view. | c) Isometric views         | can have an appearance from the parent view.                                     |  |  |  |  |  |
| 6. | Fixturing is also often referred to as? a) Work holding.  | c) Arresting.              | Dr. G. Balakrishpan, M.E., Ph.D., Principal Indra Ganesan College of Engineering |  |  |  |  |  |
|    |   |                            | IC U II  |  |  |  |  |  |

d) Grounding.

| 7.  | When measuring and adjusting the squareness of a vise, which is the preferred part of the vise to test for squareness? |   |  |  |  |  |
|-----|--|---|--|--|--|--|
|     | a) Fixed jaw.  | c) Movable jaw.   |  |  |  |  |
|     | b) The vise casting.   | d) The vise screw.  |  |  |  |  |
| 8.  | What is the main defining characteristic of  | a Lathe?  |  |  |  |  |
|     | a) It is the same as a mill only on its side.  | c) All lathes are different with no defining characteristic.  |  |  |  |  |
|     | b) The material is spinning relative to the tool.  | d) The tool is spinning relative to the material.             |  |  |  |  |
| 9.  | What axis typically aligns parallel with the a) X axis.  | fixed jaw on a vise on a CNC mill? c) Z axis.                 |  |  |  |  |
|     | b) Y axis.   | d) None of the above  |  |  |  |  |
| 10  | . On a CNC lathe, material spins about which   | axis?   |  |  |  |  |
|     | a) X axis.   | c) Z axis.  |  |  |  |  |
|     | b) Y axis.   | d) None of the above  |  |  |  |  |
| 11. | Under the setup tab, which stock mode allow height measurements to define the stock size                               | <del>-</del> -  |  |  |  |  |
|     | a) Fixed size box.   | c) Relative size box.   |  |  |  |  |
|     | b) From solid.   | d) Relative size cylinder                                     |  |  |  |  |
| 12. | When creating a CAM setup, where does the a) In the save version comment.  |   |  |  |  |  |
|     | b) In the NC file.   | d) In each toolpath   |  |  |  |  |
| 13. | When creating a new tool in Fusion 360, wh can control?  | ich of the following is not a parameter you                   |  |  |  |  |
|     | a) Feeds and speeds.   | c) Tool number.   |  |  |  |  |
|     | b) Tool material.  | d) Tool display color.  |  |  |  |  |
|     | When filtering machine configurations what a) Cloud and local.   | locations can be selected to search? c) Only cloud currently. |  |  |  |  |
|     | b) Cloud, document, local and system.time  | d) Document and system.time for its successor activity        |  |  |  |  |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012.

| 15  | . When setting up a machine configuration fil available as a "capability"?  | e, which of the fo                   | llowing options is not  |
|-----|---|--------------------------------------|---|
|     | a) Milling.   | c) Mill-turn.                        |   |
|     | b) Turning.   | d) Cutting.                          |   |
| 16  | . Which setup operation type is the correct c a) Cutting.   | hoice when using c) Milling.         | a waterjet to make a part?  |
|     | b) Grinding.  | d) Turning or m                      | ill/turn.   |
| 17. | . Fusion 360 uses yellow lines when displaying the following?   | ng calculated toolp                  | paths to indicate which of  |
|     | a) Ramping movements.   | c) Rapid movem                       | nents.  |
|     | b) Lead-in or lead-out movements.   | d) Cutting mov                       | ements.   |
| 18. | The physical material for a body is assigned a) Drawing.  | while in which w c) Animation.       | orkspace?   |
|     | b) Manufature.  | d) Design.                           |   |
| 19. | Choosing the Rest Machining option in the 2 Clearing toolpaths is useful for which of the a) Removing only the remaining material from a previous toolpath. | following?                           | ntour or 2D Adaptive  |
|     | b) Aggressively roughing out material.  | d) Machining on                      | ly fully enclosed pockets.  |
| 20. | A pocket that meets the outer contour of a paknown as?  | art and is not fully                 | enclosed is commonly  |
|     | a) An open pocket.  | c) A degenerate                      | pocket.   |
|     | b) A Partially enclosed pocket.   | d) A semi-pocke                      | <b>t.</b>   |
| 21. | One purpose of creating User Parameters is ta<br>a) Apply a Constraint to sketch entities   |                                      | al material of a body.  |
|     | b) Create a sketch.   | d) Control the va<br>dimensions from | lue of multiple a single access point.                                    |
|     | Which of the following cannot be applied to a) Chamfers   | Bodies alone?<br>c) Joints.          | Dr. G. Balakrishnan, M.E., Ph.E   |
|     | b) Extrudes   | d) Revolves.                         | Principal Indra Ganesan College of Engineeri IG Valley, Madurai Main Road |

Manikandam, Trichy-620 012.



Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

- 23. What occurs every time a file is saved in Fusion 360?
  - a) None of these.

c) A Version is created.

b) A Simulation is run.

- d) The file opens in a web browser
- 24. What is the typically attachment hardware used to hold down a vise of stock to a CNC mill's table?
  - a) C nuts.

c) T nuts.

b) X nuts.

- d) Square nuts.
- 25. Tool library sample tools can't be edited, but they can be:
  - a) Copied.

c) Duplicated.

b) Moved.

d) Deleted.

Dr. G. Balakr shnaur, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



#### "Introduction to CAD, CAM & Practical CNC Machining"

#### **ANSWER KEY**

| 1 | ь | 6  | a | 11 | a | 16 | a | 21 | d |
|---|---|----|---|----|---|----|---|----|---|
| 2 | ь | 7  | a | 12 | b | 17 | c | 22 | a |
| 3 | a | 8  | b | 13 | d | 18 | d | 23 | a |
| 4 | b | 9  | a | 14 | b | 19 | a | 24 | c |
| 5 | a | 10 | С | 15 | С | 20 | a | 25 | a |

Dr. G. Balakrishnan, M.E., ra.,
Principal

Indra Ganesan College of Engineeri: IG Valley, Madurai Main Road Manikandam, Trichy-620 01?

VAC Coordinator

HoD/MECHANICAL

| Name of the Student: R. Chello AU Register Number: 81121514   | rdunou Year/Sem: N - 100  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|
| AU Register Number: 81121511  | 4004  |  |  |  |  |  |  |  |
| Value Add   |   |  |  |  |  |  |  |  |
| "Introduction to CAD, CAM & Practical CNC Machining"  |   |  |  |  |  |  |  |  |
| MCQ QUESTIONS   | (25X4 = 100 Marks)  |  |  |  |  |  |  |  |
| <ol> <li>The Data Panel is accessed by clicking its ical a) Marking menu.</li> </ol>  | con on the: c) Browser.   |  |  |  |  |  |  |  |
| (b) Application Bar.  | d) Tool bar.  |  |  |  |  |  |  |  |
| <ul><li>2. If a sketch entity is blue, it means that it:</li><li>a) Has a constraint.</li></ul>   | c) Has a dimension.   |  |  |  |  |  |  |  |
| b) Underdefined.  | d) Is a construction entity   |  |  |  |  |  |  |  |
| 3. When starting from a new, empty design, we extruding a sketch profile into a solid or a starting from a second control of the starting from a new, empty design, we extruding a sketch profile into a solid or a starting from a new, empty design, we extruding a sketch profile into a solid or a starting from a new, empty design, we extruding a sketch profile into a solid or a starting from a new, empty design, we extruding a sketch profile into a solid or a starting from a new, empty design, we extruding a sketch profile into a solid or a starting from a new, empty design as the starting from a new, empty design as the starting from a new extruding a sketch profile into a solid or a starting from a new extruding a sketch profile into a solid or a starting from a new extruding a sketch profile into a solid or a starting from a new extruding a sketch profile into a solid or a starting from a new extruding a sketch profile into a solid or a starting from a new extruding a sketch profile into a solid or a starting from a starting from a starting from a new extruding a sketch profile into a solid or a starting from a new extruding |   |  |  |  |  |  |  |  |
| a) Named Views.   | c) Bodies.  |  |  |  |  |  |  |  |
| b) Sketches.  | d) Origin.  |  |  |  |  |  |  |  |
| 4. Which of the following can be applied while  | creating an Extruded feature from a sketch  |  |  |  |  |  |  |  |
| profile? a) Shell.  | c) Fillet.  |  |  |  |  |  |  |  |
| b) Draft  | d) Chamfer.   |  |  |  |  |  |  |  |
| <ul> <li>5. One way that Projected drawing views differ</li> <li>a) Position alignment of Projected views is locked to the parent view.</li> <li>b) Projected views can have a scale which is different from the parent view.</li> </ul>  | from Isometric drawing views is that:  c) Isometric views can have an appearance style different from the parent view.  d) None of the above. |  |  |  |  |  |  |  |
| 6. Fixturing is also often referred to as?  (a) Work holding.   | Dr. G. Balakrishnan, M.E., Ph.D.,  c) Arresting.  Principal Indra Ganesan College of Engineering  |  |  |  |  |  |  |  |
| b) Immobilizing.  | d) Grounding. IG Valley, Madurai Main Road  |  |  |  |  |  |  |  |

Manikandam, Trichy-620 012.



| 15. When setting up a machine configuration available as a "capability"?  | n file, which of the             | following options is not  |  |  |  |  |
|---|----------------------------------|---|--|--|--|--|
| a) Milling.   | © Mill-turn.                     |   |  |  |  |  |
| b) Turning.   | d) Cutting.                      |   |  |  |  |  |
| 6. Which setup operation type is the correct choice when using a waterjet to make a part?  a Cutting.  c) Milling.  |                                  |   |  |  |  |  |
| b) Grinding.  | d) Turning or                    | mill/turn.  |  |  |  |  |
| 17. Fusion 360 uses yellow lines when displathe following?  | aying calculated too             | olpaths to indicate which of  |  |  |  |  |
| a) Ramping movements.   | Rapid movements.                 |   |  |  |  |  |
| b) Lead-in or lead-out movements.   | d) Cutting mo                    | ovements.   |  |  |  |  |
| <ul><li>18. The physical material for a body is assign<br/>a) Drawing.</li></ul>  | ned while in which c) Animation. | workspace?  |  |  |  |  |
| b) Manufature.  | d) Design.                       |   |  |  |  |  |
| <ul><li>19. Choosing the Rest Machining option in the Clearing toolpaths is useful for which of the a) Removing only the remaining material from a previous toolpath.</li></ul> | the following?                   | Contour or 2D Adaptive only open pockets.                                   |  |  |  |  |
| b) Aggressively roughing out material.  | d) Machining                     | only fully enclosed pockets.  |  |  |  |  |
| <ul><li>20. A pocket that meets the outer contour of known as?</li><li>a) An open pocket.</li></ul>   | X                                |   |  |  |  |  |
| b) A Partially enclosed pocket.   | d) A semi-pocket.                |   |  |  |  |  |
| 21. One purpose of creating User Parameters a) Apply a Constraint to sketch entities  |                                  | cal material of a body  |  |  |  |  |
| b) Create a sketch.   | d) Control the v                 | d) Control the value of multiple dimensions from a single access point.     |  |  |  |  |
| 22. Which of the following cannot be applied  a) Chamfers   | to Bodies alone? c) Joints.      | Dr. G. Balakrishnan, M.E., Ph.D.,   |  |  |  |  |
| b) Extrudes   | d) Revolves.                     | Principal Indra Ganesan College of Engineering IG Valley, Madural Main Road |  |  |  |  |
|   |                                  | Manikandam, Trichy-620 012.   |  |  |  |  |

Name of the Student:

Year/Sem:

**AU Register Number:** 

#### Value Added Course

"Future of AI&ML in Information Technology"

#### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1. What is the full form of "AI"?
  - a) Artificially Intelligent
  - b) Artificial Intelligence
  - c) Artificially Intelligence
  - d) Advanced Intelligence
- 2. What is Artificial Intelligence?
  - a) Artificial Intelligence is a field that aims to make humans more intelligent
  - b) Artificial Intelligence is a field that aims to improve the security
  - c) Artificial Intelligence is a field that aims to develop intelligent machines
  - d) Artificial Intelligence is a field that aims to mine the data
- 3. Who is the inventor of Artificial Intelligence?
  - a) Geoffrey Hinton
  - b) Andrew Ng
  - c) John McCarthy
  - d) Jürgen Schmidhuber
- 4. Which of the following is the branch of Artificial Intelligence?
  - a) Machine Learning
  - b) Cyber forensics
  - c) Full-Stack Developer
  - d) Network Design
- 5. What is the goal of Artificial Intelligence?
  - a) To solve artificial problems
  - b) To extract scientific causes
  - c) To explain various sorts of intelligence
  - d) To solve real-world problems

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



- 6. Which of the following is an application of Artificial Intelligence?
  - a) It helps to exploit vulnerabilities to secure the firm
  - b) Language understanding and problem-solving (Text analytics and NLP)
  - c) Easy to create a website
  - d) It helps to deploy applications on the cloud
- 7. In how many categories process of Artificial Intelligence is categorized?
  - a) categorized into 5 categories
  - b) processes are categorized based on the input provided
  - c) categorized into 3 categories
  - d) process is not categorized
- 8. Based on which of the following parameter Artificial Intelligence is categorized?
  - a) Based on functionally only
  - b) Based on capabilities only
  - c) Based on capabilities and functionally
  - d) It is not categorized
- 9. Which of the following is a component of Artificial Intelligence?
  - a) Learning
  - b) Training
  - c) Designing
  - d) Puzzling
- 10. What is the function of an Artificial Intelligence "Agent"?
  - a) Mapping of goal sequence to an action
  - b) Work without the direct interference of the people
  - c) Mapping of precept sequence to an action
  - d) Mapping of environment sequence to an action
- 11. Which of the following is not a type of Artificial Intelligence agent?
  - a) Learning AI agent
  - b) Goal-based AI agent
  - c) Simple reflex AI agent
  - d) Unity-based AI agent
- 12. Which of the following is not the commonly used programming language for Artificial Intelligence?
  - a) Perl
  - b) Java
  - c) PROLOG
  - d) LISP

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madura Main Road Manikandam, Trichy-620 012.



"Future of AI&ML in Information Technology"

#### **ANSWER KEY**

| 1 | ь | 6  | b | 11 | d  | 16 | d | 21 | b |
|---|---|----|---|----|----|----|---|----|---|
| 2 | c | 7  | С | 12 | a  | 17 | a | 22 | d |
| 3 | c | 8  | С | 13 | ь  | 18 | С | 23 | ь |
| 4 | a | 9  | a | 14 | "C | 19 | b | 24 | С |
| 5 | С | 10 | С | 15 | d  | 20 | d | 25 | b |

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. VAC Coordinator



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Name of the Student:

Ashila Banu. M

Year/Sem:

**AU Register Number:** 

811215205007

#### Value Added Course

"Future of Al&ML in Information Technology"

#### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1. What is the full form of "AI"?
  - a) Artificially Intelligent
  - Artificial Intelligence
  - c) Artificially Intelligence
  - d) Advanced Intelligence
- 2. What is Artificial Intelligence?
  - a) Artificial Intelligence is a field that aims to make humans more intelligent
  - Artificial Intelligence is a field that aims to improve the security
  - c) Artificial Intelligence is a field that aims to develop intelligent machines
  - d) Artificial Intelligence is a field that aims to mine the data
- 3. Who is the inventor of Artificial Intelligence?
  - a) Geoffrey Hinton
  - b) Andrew Ng
  - c) John McCarthy
  - d) Jürgen Schmidhuber
- 4. Which of the following is the branch of Artificial Intelligence?
  - a) Machine Learning
  - b) Cyber forensics
  - c) Full-Stack Developer
  - d) Network Design
- 5. What is the goal of Artificial Intelligence?
  - a) To solve artificial problems
  - b) To extract scientific causes
  - c) To explain various sorts of intelligence
  - d) To solve real-world problems

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



# Indra Ganesan

Madural Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

- 6. Which of the following is an application of Artificial Intelligence?
  - a) It helps to exploit vulnerabilities to secure the firm
  - b) Language understanding and problem-solving (Text analytics and NLP)
  - c) Easy to create a website
  - d) It helps to deploy applications on the cloud
- 7. In how many categories process of Artificial Intelligence is categorized?
  - a) categorized into 5 categories
  - b) processes are categorized based on the input provided
  - c) categorized into 3 categories
  - d) process is not categorized
- 8. Based on which of the following parameter Artificial Intelligence is categorized?
  - a) Based on functionally only
  - b) Based on capabilities only
  - e) Based on capabilities and functionally
  - d) It is not categorized
- 9. Which of the following is a component of Artificial Intelligence?
  - a) Learning
  - b) Training
  - c) Designing
  - d) Puzzling
- 10. What is the function of an Artificial Intelligence "Agent"?
  - a) Mapping of goal sequence to an action
  - b) Work without the direct interference of the people
  - c) Mapping of precept sequence to an action
  - d) Mapping of environment sequence to an action
- 11. Which of the following is not a type of Artificial Intelligence agent?
  - a) Learning AI agent
  - b) Goal-based AI agent
  - c) Simple reflex AI agent
  - d) Unity-based AI agent
- 12. Which of the following is not the commonly used programming language for Artificial Intelligence?
  - b) Java
  - c) PROLOG
  - d) LISP

//

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



13. What is the name of the Artificial Intelligence system developed by Daniel Bobrow?

| <ul><li>a) program known as BACON</li><li>b) system known as STUDEN</li><li>c) program known as SHRDI</li><li>d) system known as SIMD</li></ul>                       | TV   |   |
|---|--|---|
| 14. What is the function of the sylogram that can read algoby system which can solve a c) system which can read and d) None of the mentioned                          | ebra word problems only<br>lgebra word problems but no |   |
| 15. Which of the following is not a a) Face recognition system b) Chatbots c) LIDAR d) DBMS   | n application of artificial int                        | telligence?   |
| 16. Which of the following machine a) Actuators b) Sensor c) Agents d) AI system  | e requires input from the hur                          | mans but can interpret the outputs  |
| number of informe  (a) 4  b) 3  c) 2  d) 1  | ed search method are there in                          | Artificial Intelligence.  |
| 18. The total number of proposition a) 3 proposition symbols b) 1 proposition symbols c) 2 proposition symbols d) No proposition symbols                              | symbols in AI are                                      | -   |
| a) The total number of logical symbols a) There are 3 logical symbols b) There are 5 logical symbols a) Number of logical symbols are d) Logical symbols are not used | re based on the input                                  |   |
| 20. Which of the following are the a a) Applied approach b) Strong approach c) Weak approach d) All of the mentioned  | approaches to Artificial Intel                         | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |



- 21. Face Recognition system is based on which type of approach?
  - a) Weak AI approach
  - b) Applied Al approach
  - c) Cognitive AI approach
  - d) Strong AI approach
- 22. Which of the following is an advantage of artificial intelligence?
  - a) Reduces the time taken to solve the problem
  - b) Helps in providing security
  - c) Have the ability to think hence makes the work easier
  - All of the above
- 23. Which of the following can improve the performance of an AI agent?
  - a) Perceiving
  - b) Learning
  - c) Observing
  - d) All of the mentioned
- 24. Which of the following is/are the composition for AI agents?
  - a) Program only
  - b) Architecture only
  - c) Both Program and Architecture
  - d) None of the mentioned
- 25. On which of the following approach A basic line following robot is based?
  - a) Applied approach
  - b) Weak approach
  - e) Strong approach
  - d) Cognitive approach

2

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Name of the Student: Lisha. Y

AU Register Number: 8112 17 20 50 0 6

Year/Sem:

### Value Added Course

"Future of AI&ML in Information Technology"

**MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)** 

- 1. What is the full form of "AI"?
  - a) Artificially Intelligent
  - b) Artificial Intelligence
- Artificially Intelligence
- d) Advanced Intelligence
- 2. What is Artificial Intelligence?
  - a) Artificial Intelligence is a field that aims to make humans more intelligent
  - め) Artificial Intelligence is a field that aims to improve the security
  - c) Artificial Intelligence is a field that aims to develop intelligent machines
  - d) Artificial Intelligence is a field that aims to mine the data
- 3. Who is the inventor of Artificial Intelligence?
  - a) Geoffrey Hinton
  - b) Andrew Ng
- رمر) John McCarthy
  - d) Jürgen Schmidhuber
- 4. Which of the following is the branch of Artificial Intelligence?
  - a) Machine Learning
  - b) Cyber forensics
  - A) Full-Stack Developer
  - d) Network Design
- 5. What is the goal of Artificial Intelligence?
  - a) To solve artificial problems
  - لل) To extract scientific causes
  - c) To explain various sorts of intelligence
  - d) To solve real-world problems

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



adural Main Road (NH-45B),Manikandam,Trichy Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

| 6  | Which of the following is an application of Artificial In   | telligence? |
|----|---|-------------|
| o. | Which of the following is an appropriate to secure the firm |             |

- a) It helps to exploit vulnerabilities to secure the firm
- b) Language understanding and problem-solving (Text analytics and NLP)
- c) Easy to create a website
- A) It helps to deploy applications on the cloud
- 7. In how many categories process of Artificial Intelligence is categorized?
  - a) categorized into 5 categories
  - b) processes are categorized based on the input provide
  - c) categorized into 3 categories
  - d) process is not categorized
- 8. Based on which of the following parameter Artificial Intelligence is categorized?
  - a) Based on functionally only
  - ) Based on capabilities only
    - c) Based on capabilities and functionally
    - d) It is not categorized
- 9. Which of the following is a component of Artificial Intelligence?
  - A) Learning
  - b) Training
  - c) Designing
  - d) Puzzling
- 10. What is the function of an Artificial Intelligence "Agent"?
  - a) Mapping of goal sequence to an action
  - b) Work without the direct interference of the people

Mapping of precept sequence to an action

- d) Mapping of environment sequence to an action
- 11. Which of the following is not a type of Artificial Intelligence agent?
  - a) Learning AI agent
  - b) Goal-based AI agent
  - c) Simple reflex AI agent
  - d) Unity-based AI agent
- 12. Which of the following is not the commonly used programming language for Artificial Intelligence? a) Perl
  - b) Java
  - c) PROLOG
  - d) LISP

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 



| 13. What is the name of the Artificial Intelligence system developed by Daniel Bobrow?  a) program known as BACON b) system known as STUDENT c) program known as SHRDLU A) system known as SIMD  |    |
|--|----|
| <ul> <li>14. What is the function of the system Student?</li> <li>a) program that can read algebra word problems only</li> <li>b) system which can solve algebra word problems but not read</li> <li>c) system which can read and solve algebra word problems</li> <li>d) None of the mentioned</li> </ul> |    |
| 15. Which of the following is not an application of artificial intelligence?  a) Face recognition system b) Chatbots c) LIDAR d) DBMS  |    |
| 16. Which of the following machine requires input from the humans but can interpret the outputs  a) Actuators b) Sensor c) Agents d) AI system   |    |
| number of informed search method are there in Artificial Intelligence.  b) 3 c) 2 d) 1   |    |
| 18. The total number of proposition symbols in AI are  a) 3 proposition symbols b) 1 proposition symbols c) 2 proposition symbols d) No proposition symbols  |    |
| 19. The total number of logical symbols in AI are  a) There are 3 logical symbols b) There are 5 logical symbols  Number of logical symbols are based on the input d) Logical symbols are not used   | 1  |
| 20. Which of the following are the approaches to Artificial Intelligence?  Applied approach  b) Strong approach  Dr. G. Balakrishnan, M.   | E. |

c) Weak approach

d) All of the mentioned

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** Indra Ganesan College of Engineering

IG Valley, Madurai Main Road indam, Trichy-520 012.



ENGINEERI OF Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

- 21. Face Recognition system is based on which type of approach?
  - a) Weak AI approach
  - b) Applied Al approach
  - Cognitive AI approach
    - d) Strong AI approach
- 22. Which of the following is an advantage of artificial intelligence?
  - a) Reduces the time taken to solve the problem
  - b) Helps in providing security
  - c) Have the ability to think hence makes the work easier
  - d) All of the above
- 23. Which of the following can improve the performance of an Al agent?
  - a) Perceiving
  - b) Learning
  - (9) Observing
  - d) All of the mentioned
- 24. Which of the following is/are the composition for AI agents?
  - Program only
  - b) Architecture only
  - c) Both Program and Architecture
  - d) None of the mentioned
- 25. On which of the following approach A basic line following robot is based?
  - Applied approach
  - b) Weak approach
  - c) Strong approach
  - d) Cognitive approach

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering or Valley, Mader i Maje



# ENGINEERIN

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Name of the Student:

Keerflika . R

Year/Sem:

**AU Register Number:** 

811216205010

## Value Added Course

"Future of AI&ML in Information Technology"

#### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1. What is the full form of "AI"?
  - a) Artificially Intelligent
  - b) Artificial Intelligence
  - c) Artificially Intelligence
  - d) Advanced Intelligence
- 2. What is Artificial Intelligence?
  - a) Artificial Intelligence is a field that aims to make humans more intelligent
  - b) Artificial Intelligence is a field that aims to improve the security
  - Artificial Intelligence is a field that aims to develop intelligent machines
  - d) Artificial Intelligence is a field that aims to mine the data
- 3. Who is the inventor of Artificial Intelligence?
  - a) Geoffrey Hinton
  - b) Andrew Ng
  - c) John McCarthy
  - d) Jürgen Schmidhuber
- 4. Which of the following is the branch of Artificial Intelligence?
  - a) Machine Learning
  - b) Oyber forensics
  - c) Full-Stack Developer
  - d) Network Design
- 5. What is the goal of Artificial Intelligence?
  - a) To solve artificial problems
  - b) To extract scientific causes
  - c) To explain various sorts of intelligence
  - d) To solve real-world problems

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

TG Valley, Non-ural Main F.

- and and richa-62:

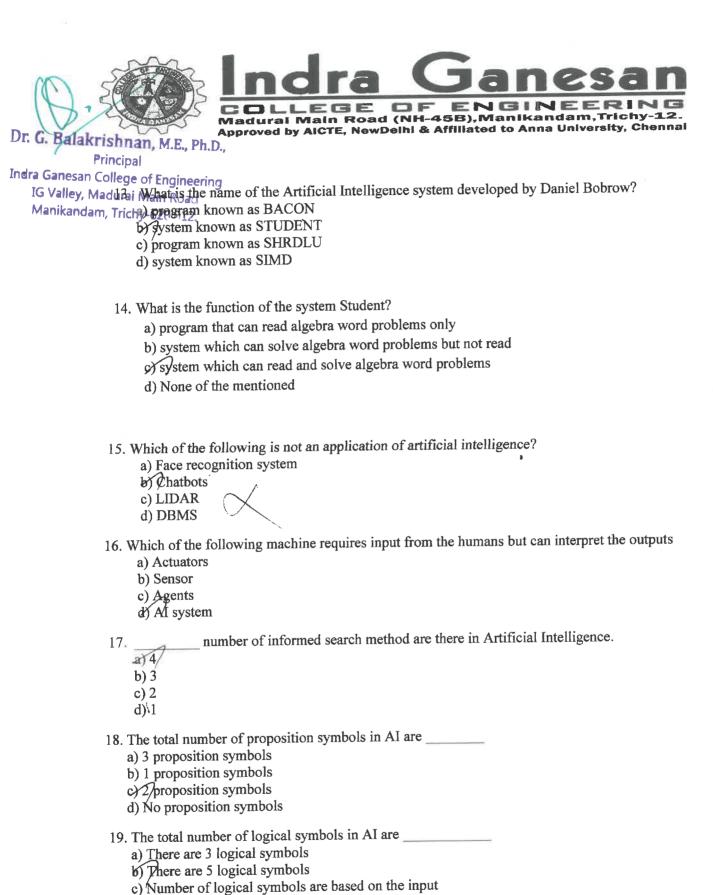


- 6. Which of the following is an application of Artificial Intelligence?
  - a) It helps to exploit vulnerabilities to secure the firm
  - b) Language understanding and problem-solving (Text analytics and NLP)
  - c) Éasy to create a website
  - d) It helps to deploy applications on the cloud
- 7. In how many categories process of Artificial Intelligence is categorized?
  - a) categorized into 5 categories
  - b) processes are categorized based on the input provided
  - categorized into 3 categories
  - d) process is not categorized
- 8. Based on which of the following parameter Artificial Intelligence is categorized?
  - a) Based on functionally only b) Based on capabilities only
  - c) Based on capabilities and functionally
  - d) It is not categorized
- 9. Which of the following is a component of Artificial Intelligence?
  - a) Learning
  - b) Training
  - c) Designing
  - d) Puzzling
- 10. What is the function of an Artificial Intelligence "Agent"?
  - a) Mapping of goal sequence to an action
  - b) Work without the direct interference of the people
  - c) Mapping of precept sequence to an action
  - d) Mapping of environment sequence to an action
- 11. Which of the following is not a type of Artificial Intelligence agent?
  - a) Learning AI agent
  - b) Goal-based AI agent
  - c) Simple reflex AI agent
  - d) Unity-based AI agent
- 12. Which of the following is not the commonly used programming language for Artificial Intelligence?
  - -a) Perl
  - b) Java
  - c) PROLOG
  - d) LISP

Dr. G. Balakrishnan, M.E., Ph.D.

Indra Ganesan College of Engineering

in to Grindaja



20. Which of the following are the approaches to Artificial Intelligence?

a) Applied approach

b) Strong approach

c) Weak approach

d) All of the mentioned

d) Logical symbols are not used



- 21. Face Recognition system is based on which type of approach?
  - a) Weak AI approach
  - b) Applied AI approach
  - c) Cognitive AI approach
  - d) Strong AI approach
- 22. Which of the following is an advantage of artificial intelligence?
  - a) Reduces the time taken to solve the problem
  - b) Helps in providing security
  - c) Have the ability to think hence makes the work easier
  - d) All of the above
- 23. Which of the following can improve the performance of an AI agent?
  - a) Perceiving
  - b) Learning
  - c) Observing
  - d) All of the mentioned
- 24. Which of the following is/are the composition for AI agents?
  - a) Program only
  - b) Architecture only
  - c) Both Program and Architecture
  - d) None of the mentioned
- 25. On which of the following approach A basic line following robot is based?
  - a) Applied approach
  - b) Weak approach
  - c) Strong approach
  - d) Cognitive approach

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Name of the Student:

Year/Sem:

**AU Register Number:** 

### Value Added Course

"Computer Fundamentals"

#### **MULTIPLE CHOICE QUESTIONS (25X4 = 100 Marks)**

- 1. Who is the father of Computers?
- a) James Gosling
- b) Charles Babbage
- c) Dennis Ritchie
- d) BjarneStroustrup
- 2. Which of the following is the correct abbreviation of COMPUTER?
- a) Commonly Occupied Machines Used in Technical and Educational Research
- b) Commonly Operated Machines Used in Technical and Environmental Research
- c) Commonly Oriented Machines Used in Technical and Educational Research
- d) Commonly Operated Machines Used in Technical and Educational Research
- 3. Which of the following is the correct definition of Computer?
- a) Computer is a machine or device that can be programmed to perform arithmetical or logic operation sequences automatically
- b) Computer understands only binary language which is written in the form of 0s & 1s
- c) Computer is a programmable electronic device that stores, retrieves, and processes the data
- d) All of the mentioned
- 4. What is the full form of CPU?
- a) Computer Processing Unit
- b) Computer Principle Unit
- c) Central Processing Unit
- d) Control Processing Unit
- 5. Which of the following language does the computer understand?
- a) Computer understands only C Language
- b) Computer understands only Assembly Language
- c) Computer understands only Binary Language
- d) Computer understands only BASIC
- 6. Which of the following computer language is written in binary codes only?
- a) Pascal
- b) machine language
- c) C
- d) C#

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



# Indra Ganesan

Madural Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

- 7. Which of the following is the brain of the computer?
- a) Central Processing Unit
- b) Memory
- c) Arithmetic and Logic unit
- d) Control unit
- 8. Which of the following is not a characteristic of a computer?
- a) Versatility
- b) Accuracy
- c) Diligence
- d) I.Q.
- 9. Which of the following is the smallest unit of data in a computer?
- a) Bit
- **b)** KB
- c) Nibble
- d) Byte
- 10. Which of the following unit is responsible for converting the data received from the user into a computer understandable format?
- a) Output Unit
- b) Input Unit
- c) Memory Unit
- d) Arithmetic & Logic Unit
- 11. Which of the following monitor looks like a television and are normally used with non-portable computer systems?
- a) LED
- b) LCD
- c) CRT
- d) Flat Panel Monitors
- 12. Which of the following is not a type of computer code?
- a) EDIC
- b) ASCII
- c) BCD
- d) EBCDIC
- 13. Which of the following part of a processor contains the hardware necessary to perform all the operations required by a computer?
- a) Controller
- b) Registers
- c) Cache
- d) Data path
- 14. Which of the following is designed to control the operations of a computer?
- a) User
- b) Application Software
- c) System Software
- d) Utility Software

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



- 15. Which of the following device use positional notation to represent a decimal number?
- a) Pascale
- b) Abacus
- c) Computer
- d) Calculator
- 16. Which of the following is used in EBCDIC?
- a) Super Computers
- b) Mainframes
- c) Machine Codes
- d) Programming
- 17. Which of the following are physical devices of a computer?
- a) Hardware
- b) Software
- c) System Software
- d) Package
- 18. Which of the following defines the assigned ordering among the characters used by the computer?
- a) Accumulation
- b) Sorting
- c) Collating Sequence
- d) Unicode
- 19. Which of the following storage is a system where a robotic arm will connect or disconnect off-line mass storage media according to the computer operating system demands?
- a) Magnetic
- b) Secondary
- c) Virtual
- d) Tertiary
- 20. Which of the following is known as the interval between the instant a computer makes a request for the transfer of data from a disk system to the primary storage and the instance the operation is completed?
- a) Disk utilization time
- b) Drive utilization time
- c) Disk access time
- d) Disk arrival time
- 21. Which of the following devices provides the communication between a computer and the outer world?
- a) Compact
- b) I/O
- c) Drivers
- d) Storage

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Approved by AICTE, NewDelhl & Affiliated to Anna University, Chennal

- 22. Which of the following are the input devices that enable direct data entry into a computer system from source documents?
- a) System Access devices
- b) Data acquiring devices
- c) Data retrieving devices
- d) Data Scanning devices
- 23. Which of the following is the device used for converting maps, pictures, and drawings into digital form for storage in computers?
- a) Image Scanner
- b) Digitizer
- c) MICR
- d) Scanner
- 24. Which of the following can access the server?
- a) Web Client
- b) User
- c) Web Browser
- d) Web Server
- 25. Which of the following is known as the language made up of binary-coded instructions?
- a) High level
- b) BASIC
- c) C
- d) Machine

Dr. G. Balakrishnan, M.E., Ph.D.,



### Value Added Course

#### "Computer Fundamentals"

#### ANSWER KEY

| 1 | В | 6  | b | 11 | c | 16 | В | 21 | В |
|---|---|----|---|----|---|----|---|----|---|
| 2 | D | 7  | a | 12 | a | 17 | A | 22 | D |
| 3 | D | 8  | đ | 13 | d | 18 | С | 23 | В |
| 4 | С | 9  | a | 14 | c | 19 | D | 24 | A |
| 5 | С | 10 | ь | 15 | b | 20 | С | 25 | D |

T. Kalanani

**VAC Coordinator** 

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Name of the Student: P. Murugappar

AU Register Number: 811218114010

### Value Added Course

"Computer Fundamentals"

**MULTIPLE CHOICE OUESTIONS (25X4 = 100 Marks)** 

Year/Sem: 1



- 1. Who is the father of Computers?
- a) James Gosling
- (b) Charles Babbage
- c) Dennis Ritchie
- d) BjarneStroustrup

#### 2. Which of the following is the correct abbreviation of COMPUTER?

- a) Commonly Occupied Machines Used in Technical and Educational Research
- (b) Commonly Operated Machines Used in Technical and Environmental Research
- c) Commonly Oriented Machines Used in Technical and Educational Research
- d) Commonly Operated Machines Used in Technical and Educational Research

### 3. Which of the following is the correct definition of Computer?

- a) Computer is a machine or device that can be programmed to perform arithmetical or logic operation sequences automatically
- b) Computer understands only binary language which is written in the form of 0s & 1s
- c) Computer is a programmable electronic device that stores, retrieves, and processes the data
- d) All of the mentioned

#### 4. What is the full form of CPU?

- a) Computer Processing Unit
- b) Computer Principle Unit
- c) Central Processing Unit
- d) Control Processing Unit

### 5. Which of the following language does the computer understand?

- a) Computer understands only C Language
- b) Computer understands only Assembly Language
- (c) Computer understands only Binary Language
- d) Computer understands only BASIC

### 6. Which of the following computer language is written in binary codes only?

- a) Pascal
- b) machine language
- c) C
- d) C#

Dr. G. Balakrishnan, M.E., Ph.D.

Principal



a computer understandable format?

the operations required by a computer?

12. Which of the following is not a type of computer code?

a) Output Unit b) Input Unit c) Memory Unit

a) LED b) LCD (c) CRT

a) EDIC b) ASCII c) BCD d) EBCDIC

a) Controller b) Registers c) Cache d) Data path

a) User

(b) Application Software c) System Software

d) Utility Software,

d) Arithmetic & Logic Unit

portable computer systems?

d) Flat Panel Monitors

| Indra Ganesan  COLLEGE OF ENGINEERING  Madurai Main Road (NH-45B), Manikandam, Trichy-12.  Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai |  |
|---|--|
| 7. Which of the following is the brain of the computer?  a) Central Processing Unit b) Memory c) Arithmetic and Logic unit d) Control unit                      |  |
| 8. Which of the following is not a characteristic of a computer?  a) Versatility b) Accuracy c) Diligence d) I.Q.   |  |
| 9. Which of the following is the smallest unit of data in a computer?  a) Bit b) KB c) Nibble d) Byte   |  |

10. Which of the following unit is responsible for converting the data received from the user into

11. Which of the following monitor looks like a television and are normally used with non-

13. Which of the following part of a processor contains the hardware necessary to perform all

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

14. Which of the following is designed to control the operations of a computer?



Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

| 15. | Which of | the following de | vice use positional | notation to repre | esent a decimal number? |
|-----|----------|------------------|---------------------|-------------------|-------------------------|
|-----|----------|------------------|---------------------|-------------------|-------------------------|

- a) Pascale
- (b) Abacus
- c) Computer
- d) Calculator

#### 16. Which of the following is used in EBCDIC?

- a) Super Computers
- (b) Mainframes
- c) Machine Codes
- d) Programming

#### 17. Which of the following are physical devices of a computer?

- a) Hardware
- b) Software
- c) System Software
- d) Package

18. Which of the following defines the assigned ordering among the characters used by the computer?

- a) Accumulation
- b) Sorting
- c) Collating Sequence
- d) Unicode

19. Which of the following storage is a system where a robotic arm will connect or disconnect off-line mass storage media according to the computer operating system demands?

- a) Magnetic
- b) Secondary
- c) Virtual
- d) Tertiary

20. Which of the following is known as the interval between the instant a computer makes a request for the transfer of data from a disk system to the primary storage and the instance the operation is completed?

- a) Disk utilization time
- b) Drive utilization time
- c) Disk access time
- d) Disk arrival time

21. Which of the following devices provides the communication between a computer and the outer world?

- a) Compact
- b) I/O
- c) Drivers
- d) Storage

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- 22. Which of the following are the input devices that enable direct data entry into a computer system from source documents?
- à) System Access devices
- b) Data acquiring devices
- c) Data retrieving devices
- d) Data Scanning devices
- 23. Which of the following is the device used for converting maps, pictures, and drawings into digital form for storage in computers?
- a) Image Scanner
- (b) Digitizer
- c) MICR
- d) Scanner
- 24. Which of the following can access the server?
- a) Web Client
- (b) User
- c) Web Browser
- d) Web Server
- 25. Which of the following is known as the language made up of binary-coded instructions?
- a) High level
- b) BASIC
- c) C
- d) Machine

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Name of the Student:

Year/Sem:

### **AU Register Number:**

Value Added Course on "Enrichment Programme on Personality for Entrepreneurship"

## MCO OUESTIONS (25X4 = 100 Marks)

- 1. Innovation can best be defined as
  - A. the generation of new ideas.
  - B. the evolution of new ideas.
  - C. the opposite of creativity.
  - D. the successful exploitation of new ideas.
- 2. Which of these statements best describes the context for entrepreneurship?
  - A. Entrepreneurship takes place in small businesses.
  - B. Entrepreneurship takes place in large businesses.
  - C. Entrepreneurship takes place in a wide variety of contexts.
  - D. Entrepreneurship does not take place in social enterprises.
- 3. Entrepreneurship can best be described as
  - A. a process that requires setting up a business. B. taking a significant risk in a business context.
  - C. having a strong vision.
  - D. a process involving innovation, new products or services, and value creation.
- 4. Entrepreneurial development is the key to achieve all-round ----- through acceleration of industrial and entrepreneurial activities.
  - A. economic development
  - B. increase in profits
  - C. shareholders value
  - D. business development
- 5. According to sociological approach, entrepreneurship
  - A. Process of sensitivity
  - B. Process of role performance
  - C. Process of economic change
  - D. All of these
- 6. Which of the following attitudes Is not generally associated with successful entrepreneurship:
  - A. Competition and co-operation
  - B. Desire to influence others
  - C. Innovation and product improvement
  - D. Status quo in business
- 7. The function of entrepreneur are:
  - A. To imagine a business idea
  - B. To study project feasibility
  - C. To setup enterprise
  - D. All the above

anan, M.E., Ph.D., Dr. G. Balakris Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

8. Which of the following sentence is not a characteristic of entrepreneurship:

- A. Risk taking
- B. Innovation



- C. Creative activity
- D. Managerial training
- 9. An entrepreneur is:
  - A. Born
  - B. Made
  - C. Bom and made both
  - D. All of these

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

- 10. Which of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the following sentence is inconsistent in the continuous transfer of the continuous transfer of the continuous transfer of the following sentence is inconsistent in the continuous transfer of the continuous
  - A. He is owner of the business
  - B. He is risk taker
  - C. He operates production activities
  - D. He searches out business opportunities
- 11. Maslow's Hierarchy of needs theory is governed by the fact that:
  - A. People are universally motivated by needs
  - B. People are socially motivated by needs
  - C. People are politically motivated by needs
  - D. None of the above
- 12. In under developed countries, local mobile phone companies use the same technology used by big companies to manufacture their products. Which of the following type of Entrepreneurs is highlighted above:
  - A. Trading Entrepreneurs
  - B. Imitative Entrepreneurs
  - C. First generation Entrepreneurs
  - D. Innovative Entrepreneurs
- 13. All but which of the following is considered to be a myth associated with entrepreneurship?
  - A. Successful entrepreneurs are born not made
  - B. First ventures are always successful
  - C. All entrepreneurs must willingly invest significant sums of money
  - D. Successful entrepreneurs must have a break-through invention
- 14. Entrepreneurial culture and growth orientation consists of all of the following except:
  - A. Encouraging employees to generate ideas
  - B. Focusing on opportunities.
  - C. The desire to grow at a slow and controlled pace.
  - D. Being creative.
- 15. Intrapreneurship often takes the form of
  - A. A semi-autonomous group (e.g. an internal venture team), operating within the overarching structure of the parent organization.
  - B. A spinout venture from a university to commercial a new invention.
  - C. A subsidiary of a large corporation developing a new product.
  - D. A semi-autonomous group operating outside the overarching structure of the parent organization.
- is a professional money manager who makes risk investment from a pool of equity capital to obtain a high rate of return on investments.
  - A. venture capitalist
  - B. entrepreneur



- C. businessman
- D. buyer

## 17. A business plan is important for all of the following reasons EXCEPT:

- A. a business plan forces a firm's founders to systematically think through each Aspect of their new venture.
- B. a business plan provides lenders and investors assurance that they will earn a Decent return.
- C. a business plan provides an investor with something to react to.
- D. a business plan is a selling document that enables a company to present itself to potential suppliers and business partners.

## 18. A new venture's business plan is important because\_\_\_\_\_.

- A. It helps to persuade others to commit funding to the venture.
- B. Can help demonstrate the viability of the venture.
- C. Provides a guide for business activities by defining objectives.
- D. All the above.

## 19. To provide financial assistance to entrepreneurs the government has set up a number of \_\_\_\_\_\_.

- A. financial advisors.
- B. financial intermediaries.
- C. Industrial estates.
- D. financial institutions.

## 20. \_\_\_\_\_can be defined as a specifically evolved work plan densed to achieve a Specific objective within a specific period of time

- A. Idea generation.
- B. Opportunity Scanning.
- C. Project.
- D. Strategy

## 21. \_\_\_\_\_\_ is used to accomplish the project economically in the minimum available time with limited resources

- A. Project Scheduling.
- B. Network Analysis.
- C. Budget Analysis.
- D. Critical Planning

## 22. \_\_\_\_\_\_ is a form of financing especially for funding high technology, high risk and Perceived high reward projects

- A. Fixed capital.
- B. Current capital.
- C. Seed capital.
- D. Venture capital.
- 23. \_\_\_\_\_ is a favorable set of circumstances that creates a need for a new product service, or business. Dr. G. Balakrishnan, M.E., Ph.D.,
  - A. A niche
  - B. A venture
  - C. A trend
  - D. An opportunity

#### Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012

## 24. Each of the following are ways to identify an opportunity EXCEPT:

- A. observing trends.
- B. solving a problem.



- C. trying out alternative uses of existing products.
- D. finding gaps in the marketplace.

## 25. Entrepreneurs can recognize problems and find ways to solve them through each of the following EXCEPT:

- A. recognizing problems in emerging trends.
- B. identifying a currently available product or service and then building a business around a better version.
- C. framing a problem differently than it's been thought of before, and then proposing an appropriate solution.
- D. experiencing a problem in one's own life, and then realizing the solution represents a business opportunity.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Name of the Student: AKALYA M

Year/Sem: 11/MBA

AU Register Number: 811217631004

Value Added Course on "Enrichment Programme on Personality for

Entrepreneurship"

## MCO OUESTIONS (25X4 = 100 Marks)

- 1. Innovation can best be defined as
  - A. the generation of new ideas.
  - B. the evolution of new ideas.
  - C. the opposite of creativity.
  - D. the successful exploitation of new ideas.
- 2. Which of these statements best describes the context for entrepreneurship?
  - A. Entrepreneurship takes place in small businesses.
  - B. Entrepreneurship takes place in large businesses.
  - C. Entrepreneurship takes place in a wide variety of contexts.
  - D. Entrepreneurship does not take place in social enterprises.
- 3. Entrepreneurship can best be described as
  - A. a process that requires setting up a business.
  - B. taking a significant risk in a business context.
  - C. having a strong vision.
  - D. a process involving innovation, new products or services, and value creation.
- - A. economic development
  - D. increase in profits
  - C. shareholders value
  - D. business development
- 5. According to sociological approach, entrepreneurship
  - A. Process of sensitivity
  - B. Process of role performance
  - C. Process of economic change
  - D. All of these
- 6. Which of the following attitudes Is not generally associated with successful entrepreneurship :
  - A. Competition and co-operation
  - B. Desire to influence others
  - C. Innovation and product improvement
  - D. Status quo in business
- 7. The function of entrepreneur are:
  - A. To imagine a business idea
  - B. To study project feasibility
  - C. To setup enterprise
  - D. All the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

8. Which of the following sentence is not a characteristic of entrepreneurship:

- A. Risk taking
- B. Innovation

C. Creative activity

D. Managerial training

9. An entrepreneur is:

A. Born

B. Made

C. Bom and made both

D. All of these

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

10. Which of the following sentence is inconsistent in the context pairety: 620 012.

A. He is owner of the business

B. He is risk taker

. He operates production activities

D. He searches out business opportunities

.11. Maslow's Hierarchy of needs theory is governed by the fact that:

A. People are universally motivated by needs

B. People are socially motivated by needs

C. People are politically motivated by needs

D. None of the above

12. In under developed countries, local mobile phone companies use the same technology used by big companies to manufacture their products. Which of the following type of Entrepreneurs is highlighted above:

A. Trading Entrepreneurs

B. Imitative Entrepreneurs

C. First generation Entrepreneurs

D. Innovative Entrepreneurs

13. All but which of the following is considered to be a myth associated with entrepreneurship?

A. Successful entrepreneurs are born not made

B. First ventures are always successful

C. All entrepreneurs must willingly invest significant sums of money

D. Successful entrepreneurs must have a break-through invention

14. Entrepreneurial culture and growth orientation consists of all of the following except:

A. Encouraging employees to generate ideas

B. Focusing on opportunities.

. The desire to grow at a slow and controlled pace.

D. Being creative.

15. Intrapreneurship often takes the form of

A. A semi-autonomous group (e.g. an internal venture team), operating within the overarching structure of the parent organization.

B. A spinout venture from a university to commercial a new invention.

C. A subsidiary of a large corporation developing a new product.

D. A semi-autonomous group operating outside the overarching structure of the parent organization.

16. A\_\_\_\_\_\_is a professional money manager who makes risk investment from a pool of equity capital to obtain a high rate of return on investments.

A. venture capitalist

B. entrepreneur

|       | Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal                        |
|-------|---|
|       | C. businessman  |
|       | D. buyer  |
| 17. 4 | A business plan is important for all of the following reasons EXCEPT:                       |
|       | A. a business plan forces a firm's founders to systematically think through each            |
|       | Aspect of their new venture.  |
|       | <b>D</b> . a business plan provides lenders and investors assurance that they will earn a   |
|       | Decent return.  |
|       | C. a business plan provides an investor with something to react to.                         |
|       | D. a business plan is a selling document that enables a company to present                  |
|       | itself to potential suppliers and business partners.  |
| 18. / | A new yenture's business plan is important because  |
| •     | A. It helps to persuade others to commit funding to the venture.                            |
|       | B. Can help demonstrate the viability of the venture.                                       |
|       | C. Provides a guide for business activities by defining objectives.                         |
|       | D. All the above.   |
| 19. 7 | To provide financial assistance to entrepreneurs the government has set up a                |
|       | ber of .  |
|       | A. financial advisors.  |
|       | B. financial intermediaries.  |
|       | C. Industrial estates.  |
|       | D. financial institutions.  |
| 20.   | can be defined as a specifically evolved work plan densed to                                |
| achi  | eve a Specific objective within a specific period of time                                   |
|       | A. Idea generation.   |
|       | B. Opportunity Scanning. Dr. G. Balakrishnan, M.E., Ph.D.                                   |
|       | C. Project.   |
|       | D. Strategy Indra Ganesan College of Engineering  |
| 21    | is used to accomplish the project economically in the minimum.  Mahikandam, Trichy-620 012. |
| avail | lable time with limited resources   |
|       | A. Project Scheduling.  |
|       | B. Network Analysis. $\checkmark$   |
|       | C. Budget Analysis.   |
|       | D. Critical Planning  |
|       | is a form of financing especially for funding high technology,                              |
| high  | risk and Perceived high reward projects   |
|       | A. Fixed capital.   |
|       | B. Current capital.   |
|       | C. Seed capital.  |
|       | D. Venture capital.   |
| 23    |   |
| servi | ce, or business.  |
|       | A. A niche  |

C. A trend
D. An opportunity

B. A venture

- 24. Each of the following are ways to identify an opportunity EXCEPT:
  - B. solving a problem.



- C. trying out alternative uses of existing products.
- D. finding gaps in the marketplace.

## 25. Entrepreneurs can recognize problems and find ways to solve them through each of the following EXCEPT:

A. recognizing problems in emerging trends.

- B. identifying a currently available product or service and then building a business around a better version.
- C. framing a problem differently than it's been thought of before, and then proposing an appropriate solution.
- D. experiencing a problem in one's own life, and then realizing the solution represents a business opportunity.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Name of the Student: VINOTHINI.S.

AU Register Number: 811217631059.

Year/Sem:

Value Added Course on "Enrichment Programme on Personality for Entrepreneurship"

### MCO OUESTIONS (25X4 = 100 Marks)

- 1. Innovation can best be defined as
  - A. the generation of new ideas.
  - B. the evolution of new ideas.
  - C. the opposite of creativity.
  - D. the successful exploitation of new ideas.
- 2. Which of these statements best describes the context for entrepreneurship?
  - A. Entrepreneurship takes place in small businesses.
  - B. Entrepreneurship takes place in large businesses.
  - Entrepreneurship takes place in a wide variety of contexts.
  - D. Entrepreneurship does not take place in social enterprises.
- 3. Entrepreneurship can best be described as
  - A. a process that requires setting up a business.
  - B. taking a significant risk in a business context.
  - C. having a strong vision.
  - D. a process involving innovation, new products or services, and value creation.
- 4. Entrepreneurial development is the key to achieve all-round ----- through acceleration of industrial and entrepreneurial activities.
  - K. economic development
  - B. increase in profits
  - C. shareholders value
  - D. business development
- 5. According to sociological approach, entrepreneurship
  - A. Process of sensitivity
  - B. Process of role performance
  - C. Process of economic change
  - D. All of these
- 6. Which of the following attitudes Is not generally associated with successful entrepreneurship:
  - A. Competition and co-operation
  - B. Desire to influence others
  - C. Innovation and product improvement
  - D. Status quo in business
- 7. The function of entrepreneur are:
  - A. To imagine a business idea
  - B. To study project feasibility
  - C. To setup enterprise
  - D. All the above
- 8. Which of the following sentence is not a characteristic of entrepreneurship:
  - A. Risk taking
  - B. Innovation

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

C. Creative activity

D. Managerial training

9. An entrepreneur is:

A. Born

B. Made

C. Bom and made both

D. All of these

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

10. Which of the following sentence is inconsistent in the context of entrepreneur:

A. He is owner of the business

B. He is risk taker

C. He operates production activities

D. He searches out business opportunities

11. Maslow's Hierarchy of needs theory is governed by the fact that:

A. People are universally motivated by needs

B. People are socially motivated by needs

C. People are politically motivated by needs

D. None of the above

12. In under developed countries, local mobile phone companies use the same technology used by big companies to manufacture their products. Which of the following type of Entrepreneurs is highlighted above:

A. Trading Entrepreneurs

B. Imitative Entrepreneurs

C. First generation Entrepreneurs

D. Innovative Entrepreneurs

13. All but which of the following is considered to be a myth associated with entrepreneurship?

A. Successful entrepreneurs are born not made

B. First ventures are always successful

C. All entrepreneurs must willingly invest significant sums of money

D. Successful entrepreneurs must have a break-through invention

14. Entrepreneurial culture and growth orientation consists of all of the following except:

A. Encouraging employees to generate ideas

B. Focusing on opportunities.

C. The desire to grow at a slow and controlled pace.

D. Being creative.

15. Intrapreneurship often takes the form of

A. A semi-autonomous group (e.g. an internal venture team), operating within the overarching structure of the parent organization.

B. A spinout venture from a university to commercial a new invention.

C. A subsidiary of a large corporation developing a new product.

D. A semi-autonomous group operating outside the overarching structure of the parent organization.

is a professional money manager who makes risk investment from a pool of equity capital to obtain a high rate of return on investments.

X. venture capitalist

B. entrepreneur

- C. businessman
- D. buyer
- 17. A business plan is important for all of the following reasons EXCEPT:
  - A. a business plan forces a firm's founders to systematically think through each Aspect of their new venture.
  - B. a business plan provides lenders and investors assurance that they will earn a Decent return.
  - C. a business plan provides an investor with something to react to.
  - D. a business plan is a selling document that enables a company to present itself to potential suppliers and business partners.

18. A new venture's business plan is important because

- A. It helps to persuade others to commit funding to the venture.
- B. Can help demonstrate the viability of the venture.
- C. Provides a guide for business activities by defining objectives.
- D. All the above.

| 19. To provide financial assistance to entrepreneurs the government | ıt hoo | 904 | **** |
|---|--------|-----|------|
| number of   | и паѕ  | set | up a |
| number of   | 18     | 1   | _    |

- A. financial advisors.
- B. financial intermediaries.
- C. Industrial estates.
- D. financial institutions.

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering

nstitutions.

can be defined as a specifically evolved work plan densed to 012.

Marikandam, fricily-620 012. 20. achieve a Specific objective within a specific period of time

- A. Idea generation.
- B. Opportunity Scanning.
- Project.
- D. Strategy
- 21. is used to accomplish the project economically in the minimum available time with limited resources
  - A. Project Scheduling.
  - B. Network Analysis.
  - C. Budget Analysis.
  - D. Critical Planning
- 22. is a form of financing especially for funding high technology, high risk and Perceived high reward projects
  - A. Fixed capital.
  - B. Current capital.
  - C. Seed capital.
  - D. Venture capital.
- \_\_\_\_is a favorable set of circumstances that creates a need for a new product, service, or business.
  - A. A niche
  - B. A venture
  - C. A trend
  - D. An opportunity
- 24. Each of the following are ways to identify an opportunity EXCEPT:
  - A. observing trends.
  - B. solving a problem.

. trying out alternative uses of existing products.

D. finding gaps in the marketplace.

## 25. Entrepreneurs can recognize problems and find ways to solve them through each of the following EXCEPT:

A. recognizing problems in emerging trends.

B. identifying a currently available product or service and then building a business around a better version.

C. framing a problem differently than it's been thought of before, and then proposing an appropriate solution.

D. experiencing a problem in one's own life, and then realizing the solution represents a business opportunity.

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Name of the Student: Romakrishnan. S.

Year/Sem: IT MBA.

AU Register Number: 8112 1763 (039)

Value Added Course on "Enrichment Programme on Personality for Entrepreneurship"

| <b>MCO</b> | <b>OUESTIONS</b> | (25X4 = | 100 | Marka     |
|------------|------------------|---------|-----|-----------|
|            | OCCUPATION       | (43A4 - |     | IVI 9 PLC |

- 1. Innovation can best be defined as
  - A. the generation of new ideas.
  - B. the evolution of new ideas.
  - C. the opposite of creativity.
  - D. the successful exploitation of new ideas.
- 2. Which of these statements best describes the context for entrepreneurship?
  - A. Entrepreneurship takes place in small businesses.
  - B. Entrepreneurship takes place in large businesses.-
  - C. Entrepreneurship takes place in a wide variety of contexts.
  - D. Entrepreneurship does not take place in social enterprises.
- 3. Entrepreneurship can best be described as
  - A. a process that requires setting up a business.
  - B. taking a significant risk in a business context.
  - C. having a strong vision.
  - D. a process involving innovation, new products or services, and value creation.
- 4. Entrepreneurial development is the key to achieve all-round ----- through acceleration of industrial and entrepreneurial activities.
  - A economic development
  - B. increase in profits
  - C. shareholders value
  - D. business development
- 5. According to sociological approach, entrepreneurship
  - A. Process of sensitivity
  - B. Process of role performance
  - C. Process of economic change
  - D. All of these
- 6. Which of the following attitudes Is not generally associated with successful entrepreneurship:
  - A. Competition and co-operation
  - B. Desire to influence others
  - C. Innovation and product improvement
  - D. Status quo in business
- 7. The function of entrepreneur are:
  - A. To imagine a business idea B. To study project feasibility
  - C. To setup enterprise
  - D. All the above

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 

- 8. Which of the following sentence is not a characteristic of entrepreneurship:
  - A. Risk taking
  - B. Innovation



- C. Creative activity
- D. Managerial training
- 9. An entrepreneur is:
  - A. Born
  - B. Made
  - C. Bom and made both
  - D. All of these

Dr. G. Bajakrishnan, M.E., Ph.D.,

**Principal** 

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

10. Which of the following sentence is inconsistent in the context of entrepreneur:

- A. He is owner of the business
- B. He is risk taker
- C. He operates production activities
- D. He searches out business opportunities
- 11. Maslow's Hierarchy of needs theory is governed by the fact that:
  - A. People are universally motivated by needs
  - B. People are socially motivated by needs
  - e. People are politically motivated by needs-
  - D. None of the above
- 12. In under developed countries, local mobile phone companies use the same technology used by big companies to manufacture their products. Which of the following type of Entrepreneurs is highlighted above:
  - A. Trading Entrepreneurs
  - -B. Imitative Entrepreneurs
  - C. First generation Entrepreneurs
  - D. Innovative Entrepreneurs
- 13. All but which of the following is considered to be a myth associated with entrepreneurship?
  - A. Successful entrepreneurs are born not made
  - B. First ventures are always successful
  - C. All entrepreneurs must willingly invest significant sums of money
  - 9. Successful entrepreneurs must have a break-through invention
- 14. Entrepreneurial culture and growth orientation consists of all of the following except:
  - A. Encouraging employees to generate ideas
  - B. Focusing on opportunities.
  - C. The desire to grow at a slow and controlled pace.
  - D. Being creative.
- 15. Intrapreneurship often takes the form of
  - A. A semi-autonomous group (e.g. an internal venture team), operating within the overarching structure of the parent organization.
  - B. A spinout venture from a university to commercial a new invention.
  - C. A subsidiary of a large corporation developing a new product.
  - D. A semi-autonomous group operating outside the overarching structure of the parent organization.
- 16. A is a professional money manager who makes risk investment from a pool of equity capital to obtain a high rate of return on investments.
  - X. venture capitalist \( \square\)
    B. entrepreneur

- C. businessman
- D. buyer
- 17. A business plan is important for all of the following reasons EXCEPT:
  - A. a business plan forces a firm's founders to systematically think through each Aspect of their new venture.
  - B. a business plan provides lenders and investors assurance that they will earn a Decent return.
  - C. a business plan provides an investor with something to react to.
  - D. a business plan is a selling document that enables a company to present itself to potential suppliers and business partners.
- 18. A new venture's business plan is important because\_\_\_\_\_
  - A. It helps to persuade others to commit funding to the venture.
  - B. Can help demonstrate the viability of the venture.
  - C. Provides a guide for business activities by defining objectives.
  - D. All the above.
- 19. To provide financial assistance to entrepreneurs the government has set up a number of \_\_\_\_\_\_.
  - A. financial advisors.
  - B. financial intermediaries.
  - C. Industrial estates.
  - D. financial institutions.
- 20. \_\_\_\_\_can be defined as a specifically evolved work plan densed to achieve a Specific objective within a specific period of time Dr. G. Balakrishnan, M.E., Ph.D.,
  - A. Idea generation.

it- C----i

B. Opportunity Scanning. C. Project.

D. Strategy

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

- 21. \_\_\_\_\_\_ is used to accomplish the project economically in the minimum available time with limited resources
  - A Project Scheduling.
  - B. Network Analysis.
  - C. Budget Analysis.
  - D. Critical Planning
- 22. \_\_\_\_\_\_is a form of financing especially for funding high technology, high risk and Perceived high reward projects
  - A. Fixed capital.
  - B. Current capital.
  - C. Seed capital.
  - D. Venture capital.
- 23. \_\_\_\_ is a favorable set of circumstances that creates a need for a new product, service, or business.
  - A. A-niche
  - B. A venture /
  - C. A trend
  - D. An opportunity
- 24. Each of the following are ways to identify an opportunity EXCEPT:
  - A. observing trends.
  - B. solving a problem.



e. trying out alternative uses of existing products.

D. finding gaps in the marketplace.

## 25. Entrepreneurs can recognize problems and find ways to solve them through each of the following EXCEPT:

A. recognizing problems in emerging trends.

B. identifying a currently available product or service and then building a business around a better version.

C. framing a problem differently than it's been thought of before, and then proposing an appropriate solution.

D. experiencing a problem in one's own life, and then realizing the solution represents a business opportunity.

Dr. G. Balakrichnan, M.E., Ph.

Principal

2018-19 (old)



## Value Added Course on "Enrichment Programme on Personality for Entrepreneurship"

### ANSWER KEY

| 1   | Α | 6  | D | 11 | С | 16 | A | 21 | A |
|-----|---|----|---|----|---|----|---|----|---|
| 2 = | С | 7  | D | 12 | В | 17 | В | 22 | D |
| 3   | D | 8  | D | 13 | D | 18 | С | 23 | D |
| 4   | A | 9  | D | 14 | С | 19 | D | 24 | С |
| 5   | В | 10 | С | 15 | A | 20 | С | 25 | В |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Name of the Student:

Year/Sem:

AU Register Number:

Value Added Course on

#### "IMPORTENCE OF CIVIL ENGINEERING SOFTWARES"

#### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. Which one is complete civil engineering software's
  - a) Photo shop
  - b) CATIA
  - c) PDMS
  - d) Revit architecture
- 2. Software is defined as Multi story Stair Run
  - a) set of programs, documentation & configuration of data
  - b) set of programs
  - c) documentation and configuration of data
  - d) None of the mentioned
- 3. Who is the father of Software Engineering?
  - a) Margaret Hamilton
  - b) Watts S. Humphrey
  - c) Alan Turing
  - d) Boris Beizer
- 4. Which one is Drafting Software
  - a) Auto cadd
  - b) Ansys
  - c) Staad pro
  - d) tekla
- 5. which one is Modeling and Animation Software
  - a) auto cadd
  - b) 3ds max
  - c) Corel draw
  - d) Photo shop
- 6. Full form of Auto cad
  - a) Computer aided drafting
  - b) Commonly available drawing
  - c) Commonly aided drawing
  - d) Commonly aided drafting

Dr. G. Balakrishnan, M.E., Ph.



#### COLLEGE OF ENGINEERING

Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDolhi & Affiliated to Anna University, Chennal

- 7. Full form of 3DS max
  - a) 3drawing standard maximum
  - b) 3dimension studio maximum
  - c) 3 drawing studio minimum
  - d) 3dimensiin studio minimum
- 8. How many types of civil software's available in market.
  - a) 4
  - b) 3
  - c) 2
  - d) 1
- 9. Which one is project management software
  - a) Ansys
  - b) Pro E
  - c) Primavera
  - d) Auto cad
- 10. Which one is structural analysis software's
  - a) Auto cadd
  - b) Pro E
  - c) Primavera
  - d) Staad pro
- 11. Who is a founder of auto cad
  - a) John walker
  - b) Charles Babbage
  - c) Bill Cates
  - d) Dennis Ritchie
- 12. Who is a founder of Revit architectures
  - a) John walker
  - b) Charles Babbage
  - c) Bill Cates
  - d) Leonid raiz and Irwin jungreis
- 13. Who is a founder of MS project
  - a) John walker
  - b) Charles Babbage
  - c) Alam m boydS
  - d) Dennis Ritchie
- 14. Who is a founder of Primavera
  - a) John walker
  - b) Charles Babbage
  - c) Joel Koppelman and Dick Faris.

(D.:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12.

- Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal
- d) Dennis Ritchie
- 15. Which company to invented in 3Ds max
  - a) Auto desk
  - b) Bentley soft
  - c) Trimble
  - d) Oracle
- 16. Which company to invented in auto cadd
  - a) Bentley soft
  - b) Trimble
  - c) Oracle
  - d) Auto desk
- 17. Which company to invented in Revit architecture
  - a) Bentley soft
  - b) Trimble
  - c) Oracle
  - d) Auto desk
- 18. Which company to invented in staad pro
  - a) Bentley soft
  - b) Trimble
  - c) Oracle
  - d) Auto desk
- 19. Which company to invented in Tekla
  - a) Bentley soft
  - b) Trimble
  - c) Oracle
  - d) Auto desk
- 20. Which company to invented in Ms project
  - a) Bentley soft
  - b) Trimble
  - c) Microsoft
  - d) Auto desk
- 21. Which company to invented in MAYA
  - a) Bentley soft
  - b) Trimble
  - c) Microsoft
  - d) Auto desk

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



#### COLLEGE OF ENGINEERING

Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDolhi & Affiliated to Anna University, Chennai

- 22. Which year developed in autocad
  - a) 1981
  - b) 1982
  - c) 1999
  - d) 1996
- 23. Which year developed in Revit Architecture
  - a) 1997
  - b) 2000
  - c) 2010
  - d) 2005
- 24. Which year developed in Primavera
  - a) 1997
  - b) 1983
  - c) 2010
  - d) 2005
- 25. Which year developed in staad pro
  - a) 1997
  - b) 2000
  - c) 2010
  - d) 2005

Dr. G. Balakrishnan, M.E., P.
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



# Value Added Course on "Importance of Civil Engineering Softwares"

# ANSWER KEY

| 1 | d | 6  | a | 11 | a | 16 | d | 21 | C |
|---|---|----|---|----|---|----|---|----|---|
| 2 | a | 7  | b | 12 | d | 17 | d | 22 | b |
| 3 | ь | 8  | a | 13 | С | 18 | a | 23 | b |
| 4 | a | 9  | С | 14 | c | 19 | ь | 24 | b |
| 5 | b | 10 | d | 15 | a | 20 | c | 25 | a |

(D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan Cellege of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 012.

VAE Coordinator

SIVE SOL



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Name of the Student:

Year/Sem: [] Civil

**AU Register Number:** 

Value Added Course on

#### "IMPORTENCE OF CIVIL ENGINEERING SOFTWARES"

| MCQ QUESTIONS (25X4 = 100 Marks)  |   |
|---|---|
| 1. Which one is complete civil engineering software's  Photo shop b) CATIA c) PDMS d) Revit architecture  | 7 |
| 2. Software is defined asMulti story Stair Run  a) set of programs, documentation & configuration of data  b) set of programs  c) documentation and configuration of data  d) None of the mentioned | , |

- 3. Who is the father of Software Engineering?
  - a) Margaret Hamilton
  - b) Watts S. Humphrey
  - (c) Alan Turing
  - d) Boris Beizer
- 4. Which one is Drafting Software

a) Auto cadd

- b) Ansys
  C) Staad pro
- 5. which one is Modeling and Animation Software
  - a) auto cadd
  - (b) 3ds max
  - c) Corel draw
  - d) Photo shop
- 6. Full form of Auto cad
  - (a) Computer aided drafting
  - b) Commonly available drawing
  - c) Commonly aided drawing
  - d) Commonly aided drafting

Dr. G. Balakrishnan, M.E., Ph.D., Principal



Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

|    |      |      | DOTO   |     |
|----|------|------|--------|-----|
| 7. | Full | form | of 3DS | max |

- a) 3drawing standard maximum
- b) 3dimension studio maximum
- © 3 drawing studio minimum
- d) 3dimensiin studio minimum
- 8. How many types of civil software's available in market.
- 9. Which one is project management software
  - a) Ansys
  - b) Pro E
  - (c) Primavera
  - d) Auto cad
- 10. Which one is structural analysis software's
  - a) Auto cadd
  - b) Pro E
  - c) Primavera
  - (d)) Staad pro
- 11. Who is a founder of auto cad
  - (a) John walker
  - b) Charles Babbage
  - c) Bill Cates
  - d) Dennis Ritchie
- 12. Who is a founder of Revit architectures
  - a) John walker
  - b) Charles Babbage
  - Bill Cates
  - (d)) Leonid raiz and Irwin jungreis
- 13. Who is a founder of MS project
  - a) John walker
  - b) Charles Babbage
  - Alam m boydS
  - d) Dennis Ritchie
- 14. Who is a founder of Primavera
  - a) John walker
  - b) Charles Babbage
  - (c)) Joel Koppelman and Dick Faris.
  - d) Dennis Ritchie

Dr. G. Balakrishnan, M.E., Ph.D., Principal



### COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| Approved by AICTE, I                    | łewDelhi &   |
|---|--------------|
| 15. Which company to invented in 3Ds 1  | max          |
| a) Auto desk                            |              |
| b) Bentley soft                         |              |
| c) Trimble                              |              |
| d) Oracle                               | -            |
| 16. Which company to invented in auto   | add          |
| a) Bentley soft                         |              |
| b) Trimble                              |              |
| c) Oracle                               |              |
| d Auto desk                             |              |
| 17. Which company to invented in Revit  | architecture |
| a) Bentley soft                         |              |
| b) Trimble                              |              |
| c) Oracle                               |              |
| (d) Auto desk                           |              |
| 18. Which company to invented in staad  | pro          |
| (a) Bentley soft                        |              |
| b) Trimble                              |              |
| c) Oracle                               |              |
| d) Auto desk                            |              |
| 19. Which company to invented in Tekla  |              |
| a) Bentley soft                         |              |
| (b) Trimble                             |              |
| c) Oracle                               |              |
| d) Auto desk                            | • ,          |
| 20. Which company to invented in Ms pro | ject         |
| a) Bentley soft                         |              |
| b) Trimble                              |              |
| (c) Microsoft                           |              |
| d) Auto desk                            |              |
| d) Auto desk                            |              |
|   |              |
| 21. Which company to invented in MAYA   | 1            |
| a) Bentley soft                         |              |
| b) Trimble                              |              |
| c) Microsoft                            |              |
| (d) Auto desk                           |              |
| 22. Which year developed in autocad     |              |
| a) 1981                                 |              |
| <b>(b)</b> 1982                         |              |
| (c) 1999                                |              |

d) 1996

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



- 23. Which year developed in Revit Architecture
  - a) 1997
  - (b) 200g
  - c) 2010
  - d) 2005
- 24. Which year developed in Primavera
  - a) 1997
  - (6) 1983
  - c) 2010
  - d)\2005
- 25. Which year developed in staad pro
  - (a) 1997
  - b) 2000
  - c) 2010
  - d) 2005/

D:-

Dr. G. Balakrishnan, M.E., Ph.D.,



# OF

Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Name of the Student: PREETHA

Year/Sem: ill civil

AU Register Number: 8112 1613010

Value Added Course on

"IMPORTENCE OF CIVIL ENGINEERING SOFTWARES"

MCQ QUESTIONS (25X1 =25 Marks)

- 1. Which one is complete civil engineering software's
  - a) Photo shop
  - b) CATIA
  - c) PDMS
    - (d) Revit architecture
- 2. Software is defined as Multi story Stair Run aset of programs, documentation & configuration of data
  - b) set of programs
  - c) documentation and configuration of data
    - d) None of the mentioned
- 3. Who is the father of Software Engineering?
  - a) Margaret Hamilton
  - Watts S. Humphrey
  - C) Alan Turing
  - d) Boris Beizer

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

4. Which one is Drafting Software

a) Auto cadd

Ansys

- c) Staad pro
- d) tekla
- 5. which one is Modeling and Animation Software
  - a) auto cadd
  - 3ds max
  - c), Corel draw
  - d) Photo shop
- 6. Full form of Auto cad
  - (a) Computer aided drafting
  - b) Commonly available drawing
  - c) Commonly aided drawing
  - d) Commonly aided drafting



Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- 7. Full form of 3DS max
  - a) 3drawing standard maximum
  - 3 dimension studio maximum
    - c) 3 drawing studio minimum
    - d) 3dimensiin studio minimum
- 8. How many types of civil software's available in market.
  - a) 4
    - c) 2
    - d) 1
- 9. Which one is project management software
  - a) Ansys
  - b) Pro E
  - Primavera
    - d) Auto cad
- 10. Which one is structural analysis software's
  - a) Auto cadd
  - b) Pro E
  - C) Primavera
  - d) Staad pro
- 11. Who is a founder of auto cad
  - John walker
  - b) Charles Babbage
  - c) Bill Cates
  - d) Dennis Ritchie
- 12. Who is a founder of Revit architectures
  - a) John walker
  - b) Charles Babbage
    - Bill Cates
    - d) Leonid raiz and Irwin jungreis
- 13. Who is a founder of MS project
  - a) John walker
  - b) Charles Babbage
  - (c) Alam m boydS
  - d) Dennis Ritchie
- 14. Who is a founder of Primavera
  - a) John walker
  - b) Charles Babbage
  - © Joel Koppelman and Dick Faris.
  - d) Dennis Ritchie

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

D:



15. Which company to invented in 3Ds max

(a) Auto desk
(b) Bentley soft
(c) Trimble
(d) Oracle
16. Which company to invented in auto cadd
(a) Bentley soft
(b) Trimble

# Indra Ganesan

Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| c)- Oracle                                       |      |
|--|------|
| \ \ \ Auto desk                                  |      |
| 17. Which company to invented in Revit architect | ture |
| a) Bentley soft                                  |      |
| b) Trimble                                       |      |
| (C) Oracle                                       |      |
| d) Auto desk                                     |      |
| 18. Which company to invented in staad pro       |      |
| (a)) Bentley soft                                |      |
| b) Trimble                                       |      |
| c) Oracle  |      |
| d) Auto desk                                     |      |
| 19. Which company to invented in Tekla           |      |
| a) Bentley soft                                  |      |
| Trimble  |      |
| c) Oracle  |      |
| d) Auto desk                                     | D    |
| 20. Which company to invented in Ms project      |      |
| ·  | In   |
| a) Bentley soft                                  |      |
| b) Trimble                                       |      |
| c) Microsoft                                     |      |
| d Auto desk                                      |      |
|  |      |
| 21 William                                       |      |
| 21. Which company to invented in MAYA            |      |
| a) Bentley soft                                  |      |
| b) frimble                                       |      |
| c) Microsoft                                     |      |
| Auto desk  |      |
| 22. Which year developed in autocad              |      |
| a) 1981  |      |
| <b>(b)</b> 1982                                  |      |
| (e) 1999   |      |
| d) 1996  |      |
|  |      |

(D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Medural Main Road
Manikandan Inchy-p20012



# 23. Which year developed in Revit Architecture

- a) 1997
- **(b)** 2000
- c) 2010
- d) 2005

# 24. Which year developed in Primavera

- a) 1997
- 6) 1983
- c) 2010
- d) 2005

# 25. Which year developed in staad pro

- (a) 1997
  - b) 2000
- c) 2010
- d) 2005

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

Name of the Student:

Karthik. P.

Year/Sem:

AU Register Number: 811215103009

Value Added Course on

# "IMPORTENCE OF CIVIL ENGINEERING SOFTWARES"

#### MCO QUESTIONS (25X4 = 100 Marks)

- 1. Which one is complete civil engineering software's
  - a) Photo shop
  - b) CATIA
  - c) PDMS
  - (d) Revit architecture
- 2. Software is defined as Multi story Stair Run
  - (a)set of programs, documentation & configuration of data
    - b) set of programs
  - c) documentation and configuration of data
  - d) None of the mentioned
- 3. Who is the father of Software Engineering?
  - a) Margaret Hamilton
  - (6) Watts S. Humphrey
  - c) Alan Turing
  - d) Boris Beizer
- 4. Which one is Drafting Software
  - (a) Auto cadd
  - b) Ansys
  - c) Staad pro
  - d) tekla
- 5. which one is Modeling and Animation Software
  - a) auto cadd
  - b) 3ds max
  - Corel draw
  - d) Photo shop
- 6. Full form of Auto cad
  - (a) Computer aided drafting
  - b) Commonly available drawing
  - c) Commonly aided drawing
  - d) Commonly aided drafting

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



OF

Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- Full form of 3DS max
  - a) 3drawing standard maximum
  - b) 3dimension studio maximum
    - © 3 drawing studio minimum
    - d) 3dimensiin studio minimum
- 8. How many types of civil software's available in market.
  - a) 4 **(b)** 3
- 9. Which one is project management software
  - a) Ansys
  - b) Pro E
  - ) Primavera
  - Auto cad
- 10. Which one is structural analysis software's
  - a) Auto cadd
  - b) Pro E
  - c) Primavera
  - (d) Staad pro
- 11. Who is a founder of auto cad
  - (a) John walker
  - b) Charles Babbage
  - c) Bill Cates
  - d) Dennis Ritchie
- 12. Who is a founder of Revit architectures
  - a) John walker
  - b) Charles Babbage
  - Bill Cates
  - d) Leonid raiz and Irwin jungreis
- 13. Who is a founder of MS project
  - a) John walker
  - b) Charles Babbage
  - Alam m boydS
  - d) Dennis Ritchie
- 14. Who is a founder of Primavera
  - (a) John walker
  - b) Charles Babbage
  - c) Joel Koppelman and Dick Faris.
  - d) Dennis Ritchie

:. G. Balakrishnan, M.E., Ph.D., Principal



ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

- 15. Which company to invented in 3Ds max
  - (a) Auto desk
  - Bentley soft
  - c) Trimble
  - d) Oracle
- 16. Which company to invented in auto cadd
  - a) Bentley soft
  - b) Trimble
  - c) Oracle
  - Auto desk
- 17. Which company to invented in Revit architecture
  - a) Bentley soft
  - b) Trimble
  - c) Oracle
  - (d) Auto desk
- 18. Which company to invented in staad pro
  - (a) Bentley soft
  - b) Trimble
  - c) Oracle
  - d) Auto desk
- 19. Which company to invented in Tekla
  - a) Bentley soft
  - (b) Trimble
  - c) Oracle
  - d) Auto desk
- 20. Which company to invented in Ms project
  - a) Bentley soft
  - b) Trimble
  - c)) Microsoft
  - d) Auto desk
- 21. Which company to invented in MAYA
  - a) Bentley soft
  - b) Trimble
  - c) Microsoft
  - (d)) Auto desk
- 22. Which year developed in autocad
  - a) 1981
  - **b** 1982
  - č) 1999
  - d) 1996

Dr. G. Balakrishnan, M.E., Ph.B.,

Principal



23. Which year developed in Revit Architecture

- a) 1997
- - c) 2010
  - d) 2005

24. Which year developed in Primavera

- a) 1997
- **(b)** 1983
- c) 2010
- d) 2005

25. Which year developed in staad pro

- (a) 1997
- b) 2000
- c) 2010
- d) 2005

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



#### Academic Year 2018-2019 - Even Semester

| Name of the Student | • | Year/Sem:   |
|---------------------|---|-------------|
| name of the Student | • | I car/scin. |

**AU Register Number:** 

Value Added Course on "C#"

#### MCQ QUESTIONS (25X4 = 100 Marks)

- 1. Which of the following is a contextual keyword in C#?
  - A get
  - B set
  - C add
  - D All of the above.
- 2. Which of the following is correct about dynamic Type in C#?
  - A You can store any type of value in the dynamic data type variable.
  - B Type checking for these types of variables takes place at run-time.
  - C Both of the above.
  - D None of the above.
- 3. Which of the following converts a type to a signed byte type in C#?
  - A ToInt64
  - B ToSbyte
  - C ToSingle
  - D ToInt32
- 4. Which of the following method copies the actual value of an argument into the formal parameter of the function?
  - A Value parameters
  - B Reference parameters
  - C Output parameters
  - D None of the above.

Dr. G. Balakrishnan, M.E., Ph.D.,



#### Academic Year 2018-2019 - Even Semester

| 5. | . Which of the | following o | perator ca | sts without | raising an | exception | if the | cast fa | ils in |
|----|----------------|-------------|------------|-------------|------------|-----------|--------|---------|--------|
| C  | #?             |             |            |             |            |           |        |         |        |

- A ?:
- B-is
- C as
- D \*

#### 6. Which of the following is correct about null coalescing operator in C#?

- A The null coalescing operator is used with the nullable value types and reference types.
- B It is used for converting an operand to the type of another nullable (or not) value type operand, where an implicit conversion is possible.
- C If the value of the first operand is null, then the operator returns the value of the second operand, otherwise it returns the value of the first operand.
- D All of the above.

#### 7. Which of the following is the correct about class member variables?

- A Member variables are the attributes of an object (from design perspective) and they are kept private to implement encapsulation.
- B These private variables can only be accessed using the public member functions.
- C Both of the above.
- D None of the above.
- 8. Operator overloading is a kind of dynamic polymorphism.
  - A true
  - B false
- 9. Which of the following preprocessor directive allows you to undefine a symbol in C#?
  - A define
  - B undef
  - C region
  - D endregion

Dr. G. Balakrishnan, M.E., Ph.D.,



#### Academic Year 2018-2019 - Even Semester

| 10. The System Exception | class is t | the base clas | ss for all | predefined: | system |
|--------------------------|------------|---------------|------------|-------------|--------|
| exception in C#?         |            |               |            |             |        |

- A true
- B false
- 11. C# is a programming language, developed by . .
  - A. Oracle
  - B. Microsoft
  - C. GNU project
  - D. Google
- 12. C# runs on the \_\_\_\_.
  - A. .NET Framework
  - B. Java Virtual Machine
  - C. Both A. and B.
  - D. None of the above
- 13. C# programming language is used to develop -
  - A. Web apps
  - B. Desktop apps
  - C. Mobiles apps
  - D. All of the above
- 14. Is C# an object-oriented programming language?
  - A. Yes
  - B. No
- 15. Is C++ an alias of C#?
  - A. Yes
  - B. No
- 16. What is the extension of a C# language file?
  - A. .c
  - B. .cpp
  - C. .cs
  - D. .csp

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



#### Academic Year 2018-2019 - Even Semester

#### 17. Who is the founder of C# programming language?

- A. Anders Heilsberg
- B. Douglas Crockford
- C. Rasmus Lerdorf
- D. Brendan Eich

#### 18. Is C# a type safe programming language?

- A. Yes
- B. No

#### 19. Is C# a structured programming language?

- A. Yes
- B. No

#### 20. CLR stands for .

- A. Common Type System
- B. Common Language Specification
- C. Common Language Runtime
- D. Java Virtual Machine

#### 21. .Net CLR is equivalent to?

- A. Common Type System
- B. Common Language Specification
- C. Common Language Runtime
- D. Java Virtual Machine

#### 22. What is CLR in C#?

- A. It is a virtual machine component of Microsoft .NET Framework
- B. It is a virtual machine component of JVM
- C. It is a compiler to compiler the C# code
- D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



# Academic Year 2018-2019 - Even Semester

#### 23. What does the CLR in C# do?

- A. Manages the execution of Webpages programs
- B. Manages the parsing of the various types
- C. Manages the execution of .NET programs
- D. All of the above

### 24. SOAP in C# stands for \_\_\_\_.

- A. Simple Object Access Protocol
- B. Simple Object Access Program
- C. Standard Object Access Protocol
- D. Standard Object Access Program

# 25. Every C# statement is terminated by \_\_\_\_.

- A. Colon (:)
- B. Semicolon (;)
- C. Comma (,)
- D. Dot (.)

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



# Academic Year 2018-2019 - Even Semester

# **Value Added Course**

"C#"

#### **ANSWER KEY**

| 1 | D | 6  | D | 11 | В | 16 | D | 21 | D |
|---|---|----|---|----|---|----|---|----|---|
| 2 | C | 7  | C | 12 | A | 17 | A | 22 | Α |
| 3 | В | 8  | В | 13 | D | 18 | C | 23 | C |
| 4 | C | 9  | В | 14 | A | 19 | D | 24 | A |
| 5 | Α | 10 | A | 15 | В | 20 | C | 25 | В |

W-Church VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



### Academic Year 2018-2019 - Even Semester

Name of the Student: Swathe. M

Year/Sem: U

AU Register Number: 81121710 4020

Value Added Course on "C#"

MCO QUESTIONS (25X4 = 100 Marks)

- 1. Which of the following is a contextual keyword in C#?
  - A get
  - B set
  - C add
  - D- All of the above.
- 2. Which of the following is correct about dynamic Type in C#?
  - A You can store any type of value in the dynamic data type variable.
  - B Type checking for these types of variables takes place at run-time.
  - &- Both of the above.
  - D None of the above.
- 3. Which of the following converts a type to a signed byte type in C#?
  - A ToInt64
  - B- ToSbvie
  - C Ta Single
  - D ToInt32
- 4. Which of the following method copies the actual value of an argument into the formal parameter of the function?
  - A Value parameters
  - B Reference parameters
  - € Output parameters
  - D None of the above.

Dr. G. Balakrishnan, M.E., Ph.D., Principal

# Academic Year 2018-2019 - Even Semester

# 17. Who is the founder of C# programming language?

- A. Anders Hejlsberg
- B. Douglas Prockford
- C. Rasmus Lerdorf
- D. Brendan Eich

#### 18. Is C# a type safe programming language?

A. Yes

### 19. Is C# a structured programming language?

A. Yes B. No

#### 20. CLR stands for \_\_\_\_.

- A. Common Type System
- B. Common Language Specification
- . Common Language Runtime
- D. Java Virtual Machine

#### 21. Net CLR is equivalent to?

- A. Common Type System
- B. Common Language Specification
- C. Common Language Runtime
- Java Virtual Machine

#### 22. What is CLR in C#?

K. It is a virtual machine component of Microsoft .NET Framework

- B. It is a virtual machine component of JVM
- C. It is a compiler to compiler the C# code
- D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



# Academic Year 2018-2019 - Even Semester

#### 23. What does the CLR in C# do?

- A. Manages the execution of Webpages programs
- B. Manages the parsing of the various types
- C. Manages the execution of .NET programs
- O. All of the above

# 24. SOAP in C# stands for \_\_\_\_.

- A. Simple Object Access Protocol
- B. Simple Object Access Program
- C. Standard Object Access Protocol
- D. Standard Object Access Program

# 25. Every C# statement is terminated by \_\_\_\_.

- A. Colon (:)
- B. Semicoion (;)
- C, Comma (,)
- 10. Dot (.)

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



# Academic Year 2018-2019 - Even Semester

Name of the Student : P. HEMA

Year/Sem: 10 Vii

AU Register Number: 811215104016

Value Added Course on "C#"

# MCO QUESTIONS (25X4 = 100 Marks)

1. Which of the following is a contextual keyword in C#?

- A get
- B-set
- C add
- D All of the above.

2. Which of the following is correct about dynamic Type in C#?

- A You can store any type of value in the dynamic data type variable.
- B Type checking for these types of variables takes place at run-time.
- &-Both of the above.
- D None of the above.

3. Which of the following converts a type to a signed byte type in C#?

- A ToInt64
- B-ToSbyte
- C ToSingle
- D-ToInt32

4. Which of the following method copies the actual value of an argument into the formal parameter of the function?

- A Value parameters
- B Reference parameters
- C-Output parameters
- D None of the above.

Dr. G. Balakrishnan, M.E., Ph.D., Principal



# Academic Year 2018-2019 - Even Semester

- 5. Which of the following operator casts without raising an exception if the cast fails in C#?
  - A ?:
  - B-is

C-as/

B- \*

- 6. Which of the following is correct about null coalescing operator in C#?
  - A The null coalescing operator is used with the nullable value types and reference types.
  - B It is used for converting an operand to the type of another nullable (or not) value type operand, where an implicit conversion is possible.
  - C If the value of the first operand is null, then the operator returns the value of the second operand, otherwise it returns the value of the first operand.
  - D All of the above.
- 7. Which of the following is the correct about class member variables?
  - A Member variables are the attributes of an object (from design perspective) and they are kept private to implement encapsulation.
  - B These private variables can only be accessed using the public member functions.

  - D None of the above.
- 8. Operator overloading is a kind of dynamic polymorphism.

X- true

B - false

- 9. Which of the following preprocessor directive allows you to undefine a symbol in C#?
  - A define

B - undef

. C - region

D - endregion

Dr. G. Bardkrishnan, M.E., Ph.D.,

# Academic Year 2018-2019 - Even Semester

| 10. The System. System Exception | class | is the | base | class | for | ali | predefined | system |
|----------------------------------|-------|--------|------|-------|-----|-----|------------|--------|
| exception in C#?                 |       |        |      |       |     |     |            |        |

A - true

B - false

# 11. C# is a programming language, developed by \_\_\_\_.

- A. Oracle
- B. Microsoft
  - C. GNU project
- D. Google

#### 12. C# runs on the \_\_\_\_.

- A. NET Framework
- B. Java Virtual Machine
- C. Both A, and B.
- D. None of the above

### 13. C# programming language is used to develop -

- A. Web apps
- B. Desktop apps
- C. Mobiles apps
- All of the above

### 14. Is C# an object-oriented programming language?

A. Yes

#### 15. Is C++ an alias of C#?

A. Yes B. No

# 16. What is the extension of a C# language file?

A. .c

B. .cpp

C. es

D. .csp

Dr. G. Balakrishnan, M.E., Ph.D., Principal



# Academic Year 2018-2019 - Even Semester

#### 17. Who is the founder of C# programming language?

- A. Anders Heilsberg
  - B. Douglas Crockford
  - C. Rasmus Lerdorf
  - D. Brendan Eich

# 18. Is C# a type safe programming language?

A. Yes

B. No

### 19. Is C# a structured programming language?

A. Yes

B. No

#### 20. CLR stands for \_\_\_\_.

- A. Common Type System
- B. Common Language Specification
- &. Common Language Runtime
- D. Java Virtual Machine

#### 21. Net CLR is equivalent to?

- A. Common Type System
- B. Common Language Specification
- C. Common I anguage Runtime
- D. Java Virtual Machine

#### 22. What is CLR in C#?

- A. It is a virtual machine component of Microsoft .NET Framework
- B. It is a virtual machine component of JVM
- C. It is a compiler to compiler the C# code
- D. All of the above

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



### Academic Year 2018-2019 - Even Semester

#### 23. What does the CLR in C# do?

- A. Manages the execution of Webpages programs
- B. Manages the parsing of the various types
- . Manages the execution of .NET programs
- D. All of the above

#### 24. SOAP in C# stands for \_\_\_\_.

- A: Simple Object Access Protocol
- B. Simple Object Access Program
- C. Standard Object Access Protocol
- D. Standard Object Access Program

#### 25. Every C# statement is terminated by \_\_\_\_.

- A. Colon (:)
- B. Semicolon (2)
- C. Comma (,)
- D. Dot (.)

(D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



sName of the Student:

Year/Sem:

AU Register Number:

# Value Added Course

"Develop and Implementation of Renewable Energy systems using MATLAB"

<u>MULTIPLE CHOICE QUESTIONS</u> (25X1 = 25 Marks)

| 1. Based on usability, Energy Resources are classified into                                |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| a) primary, secondary and tertiary resources   |  |  |  |  |  |  |  |  |
| b) primary and secondary resources   |  |  |  |  |  |  |  |  |
| c) primary, secondary, intermediate and tertiary resources                                 |  |  |  |  |  |  |  |  |
| d) primary, intermediate and secondary resources   |  |  |  |  |  |  |  |  |
| 2. Which of the following is not a type of primary resource?                               |  |  |  |  |  |  |  |  |
| a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight  |  |  |  |  |  |  |  |  |
| 3. The ratio of energy received from a raw energy source to energy spent to obtain the raw |  |  |  |  |  |  |  |  |
| energy source is called as   |  |  |  |  |  |  |  |  |
| a) consumption ratio b) fuel ratio c) energy yield ratio d) joule ratio                    |  |  |  |  |  |  |  |  |
| 4. Energy Resources which are being used for many decades are known as                     |  |  |  |  |  |  |  |  |
| a) conventional energy sources b) non-conventional energy sources                          |  |  |  |  |  |  |  |  |
| c) primary energy sources d) fuel cells  |  |  |  |  |  |  |  |  |
| 5. Which of the statements is correct about Solar Energy?                                  |  |  |  |  |  |  |  |  |
| a) It is a renewable and conventional source of energy                                     |  |  |  |  |  |  |  |  |
| b) It is a non-renewable and non-conventional source of energy                             |  |  |  |  |  |  |  |  |
| c) It is a renewable and non-conventional source of energy                                 |  |  |  |  |  |  |  |  |
| d) It is a non-renewable source of energy  |  |  |  |  |  |  |  |  |
| 6. Wind and Hydrogen energy are examples of  |  |  |  |  |  |  |  |  |
| a) primary sources b) primary and secondary sources respectively                           |  |  |  |  |  |  |  |  |
| c) secondary sources d) tertiary sources   |  |  |  |  |  |  |  |  |
| 7. On the basis of long-term availability, resources are classified into                   |  |  |  |  |  |  |  |  |
| a) conventional and non-conventional resources   |  |  |  |  |  |  |  |  |
| b) renewable and non-renewable resources   |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| c) primary and secondary resources  Dr. G. Balakrishnan, M.E., Ph.D.,  Principal           |  |  |  |  |  |  |  |  |
| Indra Ganesan College of Engineering   |  |  |  |  |  |  |  |  |

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



| 8.  | Which of these r  | esources does 1  | not produce Co    | O2 during elec   | tricity generation?   |  |  |  |  |  |
|-----|---|------------------|-------------------|------------------|---|--|--|--|--|--|
|     | a) Coal   | b) Methane       | c) Uranium        | d) Biogas        |   |  |  |  |  |  |
| 9,  | On the basis of o   | rigin, energy r  | esources are cl   | assified into n  | natural and artificial resources.                                 |  |  |  |  |  |
|     | a) True   | b) Fal           | se                |                  |   |  |  |  |  |  |
| 10. | Which of these  | is the major co  | ntributor to w    | orld pollution   | ?   |  |  |  |  |  |
|     | a) Commerc  | ial resources    | b) Non-Comm       | nercial Resource | ces   |  |  |  |  |  |
|     | c) Renewabl   | le Resources     | d) Nuclear En     | nergy            |   |  |  |  |  |  |
| 11  | . Half of the wor   | ld's energy ne   | eds are fulfille  | l by renewabl    | e energy sources.   |  |  |  |  |  |
|     | a) True   | b) False         |                   |                  |   |  |  |  |  |  |
| 12  | 12. Which of the energy resources were considered for large scale use after the oil crisis of |                  |                   |                  |   |  |  |  |  |  |
|     | 1973?   |                  |                   |                  |   |  |  |  |  |  |
|     | a) Convention   | onal Sources     | b) Non-Conve      | entional Source  | es  |  |  |  |  |  |
|     | c) Non-rene   | wable sources    | d) Primary So     | urces            |   |  |  |  |  |  |
| 13  | . The unit of ene   | rgy yield ratio  |                   |                  |   |  |  |  |  |  |
|     | a) joule  | b) wat           |                   |                  | d) dimensionless  |  |  |  |  |  |
| 14  | . Which of the st   |                  |                   |                  |   |  |  |  |  |  |
|     |   |                  | ventional sourc   |                  |   |  |  |  |  |  |
|     |   |                  | l non-conventio   |                  |   |  |  |  |  |  |
|     | c) It is a ren  | ewable and non   | -conventional s   | ource of energ   | у   |  |  |  |  |  |
|     | d) It is a nor  | n-renewable sou  | rce of energy     |                  |   |  |  |  |  |  |
| 15  | . World Energy  |                  |                   |                  |   |  |  |  |  |  |
|     | a) deforestat   | tion b) incr     | easing population | on and Industr   | ialization  |  |  |  |  |  |
|     | c) inflation  | d) natu          | ral calamities    |                  |   |  |  |  |  |  |
| 16  | . Which of the fo   | ollowing is a di | sadvantage of     | Hydro Power      | ?   |  |  |  |  |  |
|     | a) They cause deforestation and affect wildlife  Dr. G. Balakrishnan, M.F. Ph.D.              |                  |                   |                  |   |  |  |  |  |  |
|     | b) They cau   | se harmful emis  | ssions            |                  | Principal   |  |  |  |  |  |
|     | c) They are   | an unstable sou  | rce of energy     |                  | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |  |  |  |  |  |
|     |   |                  |                   | 4 . 4 . 54 . 44  | Manifest Manifest Manifest Model                                  |  |  |  |  |  |

d) They are not suitable for long-distance electricity transmission

Manikandam, Trichy-620 012.



| 17. Which of the following statement is true about conventional energy sources?  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| a) They cause minimum pollution  |  |  |  |  |  |  |  |  |  |
| b) They are available in limited quantity  |  |  |  |  |  |  |  |  |  |
| c) Coal is the most used conventional energy source in the world   |  |  |  |  |  |  |  |  |  |
| d) There are sufficient reserves of Coal, Petroleum and Natural gas for the next 300 years                                   |  |  |  |  |  |  |  |  |  |
| 18. All of the conventional energy sources are Non-Renewable.  |  |  |  |  |  |  |  |  |  |
| a) True b) False   |  |  |  |  |  |  |  |  |  |
| 19. To focus on Renewable and Other alternative sources of energy, was established in March 1981 by the Government of India. |  |  |  |  |  |  |  |  |  |
| a) commission for additional sources of energy   |  |  |  |  |  |  |  |  |  |
| b) commission for alternative sources of energy  |  |  |  |  |  |  |  |  |  |
| c) council of scientific & industrial research   |  |  |  |  |  |  |  |  |  |
| d) centre for science and environment  |  |  |  |  |  |  |  |  |  |
| 20. IREDA was developed by the Government of India   |  |  |  |  |  |  |  |  |  |
| a) to implement more efficient methods for using Conventional Energy sources   |  |  |  |  |  |  |  |  |  |
| b) to promote the Development of Non-Conventional Energy Sources   |  |  |  |  |  |  |  |  |  |
| c) to develop Nuclear Energy in India  |  |  |  |  |  |  |  |  |  |
| d) to control pollution  |  |  |  |  |  |  |  |  |  |
| 21. Apart from supplying energy, fossil fuels are used for   |  |  |  |  |  |  |  |  |  |
| a) storing energy in solar ponds b) drying Vegetables  |  |  |  |  |  |  |  |  |  |
| c) rotating turbine in Hydro Power plants d) manufacture of Organic Chemicals  |  |  |  |  |  |  |  |  |  |
| 22. The only country having a full-fledged ministry for Development of New and Renewable Resources is                        |  |  |  |  |  |  |  |  |  |
| a) India b) Bangladesh c) USA d) China   |  |  |  |  |  |  |  |  |  |
| 23. Which of the following pollutants are emitted by the burning of fossil fuel?   |  |  |  |  |  |  |  |  |  |
| a) Oxides of Carbon, Nitrogen, and Sulphur   |  |  |  |  |  |  |  |  |  |
| b) Oxides of Carbon, Uranium, and Radium   |  |  |  |  |  |  |  |  |  |
| c) Calcium Halides and Oxides of Nitrogen d) Noble Gases  Dr. G. Balakrishnan, M.E., Ph.D                                    |  |  |  |  |  |  |  |  |  |
| Principal  Indra Ganesan College of Engineering  |  |  |  |  |  |  |  |  |  |

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



- 24. \_\_\_\_ is a petrochemical and is used as raw material for chemical, pharmaceutical, and paint industry.
  - a) Plutonium
- b) Uranium
- c) Coal
- d) Protactinium
- 25. Which of the following statements is not true about radioactive waste?
  - a) It has radioactivity quotient of dangerous levels.
  - b) The disposed radioactive waste is to be guarded for a long period
  - c) It has low radioactivity quotient
  - d) Its radioactivity decreases with time.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



# Value Added Course

"Develop and Implementation of Renewable Energy systems using MATLAB"

#### **ANSWER KEY**

| 1 | d | 6  | ь | 11 | b | 16 | a | 21 | d |
|---|---|----|---|----|---|----|---|----|---|
| 2 | C | 7  | ь | 12 | b | 17 | ь | 22 | а |
| 3 | С | 8  | c | 13 | d | 18 | ь | 23 | a |
| 4 | a | 9  | b | 14 | С | 19 | a | 24 | С |
| 5 | c | 10 | а | 15 | ь | 20 | b | 25 | c |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 



sName of the Student: Mouno K

Year/Sem: 11/4

AU Register Number: 8 1 2 7 1 0 5 0 1 7

d) commercial and non-commercial resources

# Value Added Course

"Develop and Implementation of Renewable Energy systems using MATLAB"

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

| 1. Based on usability, Energy Resources are classified into              | ,                                 |  |
|--|-----------------------------------|--|
| a) primary, secondary and tertiary resources                             |                                   |  |
| b) primary and secondary resources                                       |                                   |  |
| c) primary, secondary, intermediate and tertiary resources               |                                   |  |
| d) primary, intermediate and secondary resources                         |                                   |  |
| 2. Which of the following is not a type of primary resource?             |                                   |  |
| a) Crude Oil b) Coal c) Hydrogen Energy d) Su                            | nlight                            |  |
| 3. The ratio of energy received from a raw energy source to energy spen  | at to obtain the raw              |  |
| energy source is called as   |                                   |  |
| a) consumption ratio b) fuel ratio c) energy yield ratio                 | d) joule ratio                    |  |
| 4. Energy Resources which are being used for many decades are known      | as                                |  |
| a) conventional energy sources b) non-conventional energy so             | urces                             |  |
| c) primary energy sources d) fuel cells                                  |                                   |  |
| 5. Which of the statements is correct about Solar Energy?                |                                   |  |
| a) It is a renewable and conventional source of energy                   |                                   |  |
| b) It is a non-renewable and non-conventional source of energy           | Dr. G. Balakrishnan, M.E., Ph.D., |  |
| Principal  Indra Ganesan College of Engineering                          |                                   |  |
| d) It is a non-renewable source of energy                                |                                   |  |
| 6. Wind and Hydrogen energy are examples of                              | Manikandam, Trichy-620 012.       |  |
| a) primary sources (b) primary and secondary sources resp                | ectively                          |  |
| c) secondary sources d) tertiary sources                                 |                                   |  |
| 7. On the basis of long-term availability, resources are classified into | nanay                             |  |
| a) conventional and non-conventional resources                           |                                   |  |
| b) renewable and non-renewable resources                                 |                                   |  |
| c) primary and secondary resources                                       |                                   |  |



| 8. Which of these resources does not produce CO2 during electricity generation?   |
|---|
| a) Coal b) Methane c) Uranium (1) Biogas  |
| 9. On the basis of origin, energy resources are classified into natural and artificial resources.                           |
| a) True (b) False   |
| 10. Which of these is the major contributor to world pollution?   |
| a) Commercial resources b) Non-Commercial Resources   |
| d) Nuclear Energy   |
| 11. Half of the world's energy needs are fulfilled by renewable energy sources.   |
| a) True (b) False   |
| 12. Which of the energy resources were considered for large scale use after the oil crisis of                               |
| 1973?   |
| a) Conventional Sources (b) Non-Conventional Sources  |
| c) Non-renewable sources d) Primary Sources   |
| 13. The unit of energy yield ratio is   |
| a) joule b) watt c) joule/Kelvin d) dimensionless   |
| 14. Which of the statements is correct about Solar Energy?  |
| a) It is a renewable and conventional source of energy  |
| b) It is a non-renewable and non-conventional source of energy  (c) It is a renewable and non-conventional source of energy |
| d) It is a non-renewable source of energy  Dr. G. Balakrishnan, M.E., Ph.I.   |
| 15. World Energy Needs are rising due to Indra Ganesan College of Engineering   |
| a) deforestation (b) increasing population and Industrialization Manikandam, Trichy-620 012.                                |
| c) inflation d) natural calamities  |
| 16. Which of the following is a disadvantage of Hydro Power?  |
| a) They cause deforestation and affect wildlife   |
| b) They cause harmful emissions   |
| c) They are an unstable source of energy  |
| d) They are not suitable for long-distance electricity transmission   |



| 17. Which of the following statement is true about co   | nventional energy sources?   |  |  |  |
|---|--|--|--|--|
| (a) hey cause minimum pollution   |  |  |  |  |
| b) They are available in limited quantity   |  |  |  |  |
| c) Coal is the most used conventional energy source in the world                              |  |  |  |  |
| d) There are sufficient reserves of Coal, Petroleu  | um and Natural gas for the next 300 years  |  |  |  |
| 18. All of the conventional energy sources are Non-R  | enewable.  |  |  |  |
| a) True (b) False   |  |  |  |  |
| 19. To focus on Renewable and Other alternative sou in March 1981 by the Government of India. | rces of energy, was established  |  |  |  |
| ommission for additional sources of energy  |  |  |  |  |
| b) commission for alternative sources of energy   |  |  |  |  |
| c) council of scientific & industrial research  |  |  |  |  |
| d) centre for science and environment   |  |  |  |  |
| 20. IREDA was developed by the Government of India  | 26 ECCOMMUNICATION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AN |  |  |  |
| a) to implement more efficient methods for using  | Conventional Energy sources  |  |  |  |
| 6) to promote the Development of Non-Conventional Energy Sources                              |  |  |  |  |
| c) to develop Nuclear Energy in India   |  |  |  |  |
| d) to control pollution   |  |  |  |  |
| 21. Apart from supplying energy, fossil fuels are used in                                     | for and the second contract co |  |  |  |
| a) storing energy in solar ponds b) di  | ying Vegetables  |  |  |  |
| c) rotating turbine in Hydro Power plants   | anufacture of Organic Chemicals  |  |  |  |
| 22. The only country having a full-fledged ministry for Resources is                          | Development of New and Renewable   |  |  |  |
| (a)India b) Bangladesh c) USA   | d) China   |  |  |  |
| 23. Which of the following pollutants are emitted by the                                      | e burning of fossil fuel?  |  |  |  |
| (a) wides of Carbon, Nitrogen, and Sulphur  |  |  |  |  |
| b) Oxides of Carbon, Uranium, and Radium  |  |  |  |  |
| c) Calcium Halides and Oxides of Nitrogen   |  |  |  |  |
| d) Noble Gases  | Dr. G. Balakrishnan, M.E., Ph.D.,  Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.   |  |  |  |
|   | The state of the s |  |  |  |



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

sName of the Student: Amudha. M

Year/Sem: IV/VIII

AU Register Number: 811215105001

# Value Added Course

"Develop and Implementation of Renewable Energy systems using MATLAB"

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

| 1. Based on usability, Energy Resources are classified into                              |  |  |
|--|--|--|
| a) primary, secondary and tertiary resources   |  |  |
| b) primary and secondary resources   |  |  |
| c) primary, secondary, intermediate and tertiary resources                               |  |  |
| d) primary, intermediate and secondary resources   |  |  |
| 2. Which of the following is not a type of primary resource?                             |  |  |
| a) Crude Oil b) Coal c) Hydrogen Energy d)   | Sunlight                                 |  |
| 3. The ratio of energy received from a raw energy source to energy s                     | pent to obtain the raw                   |  |
| energy source is called as   |  |  |
| a) consumption ratio b) fuel ratio c) energy yield ratio                                 | o d) joule ratio                         |  |
| 4. Energy Resources which are being used for many decades are known                      | own as                                   |  |
| a) priventional energy sources b) non-conventional energy                                | sources                                  |  |
| c) primary energy sources d) fuel cells  |  |  |
| 5. Which of the statements is correct about Solar Energy?                                |  |  |
| a) It is a renewable and conventional source of energy                                   | (A.)                                     |  |
| b) It is a non-renewable and non-conventional source of energy                           | 10                                       |  |
| c) It is a renewable and non-conventional source of energy                               | Dr. G. Balakrishnan, M.E., Ph.D.         |  |
| d) It is a non-renewable source of energy  Principal  Indra Ganesan College of Engineeri |  |  |
| 6. Wind and Hydrogen energy are examples of  | Ad valley, Madurai Main Road             |  |
| a) primary sources b) primary and secondary sources r                                    | Manikandam, Trichy-620 012. respectively |  |
| c) secondary sources d) tertiary sources   |  |  |
| 7. On the basis of long-term availability, resources are classified into                 |  |  |
| a) conventional and non-conventional resources   |  |  |
| b renewable and non-renewable resources  |  |  |
| c) primary and secondary resources   |  |  |
| d) commercial and non-commercial resources   |  |  |



| 8. Which of these resources does not produce CO2 during electricity generation?                   |
|---|
| a) Coal b) Methane c) Uranium d) Biogas   |
| 9. On the basis of origin, energy resources are classified into natural and artificial resources. |
| a) True b) False  |
| 10. Which of these is the major contributor to world pollution?                                   |
| (a) Commercial resources b) Non-Commercial Resources  |
| c) Renewable Resources d) Nuclear Energy  |
| 11. Half of the world's energy needs are fulfilled by renewable energy sources.                   |
| (a) True b) False   |
| 12. Which of the energy resources were considered for large scale use after the oil crisis of     |
| 1973?   |
| a) Conventional Sources b) Non-Conventional Sources   |
| c) Non-renewable sources d) Primary Sources   |
| 13. The unit of energy yield ratio is   |
| a) joule b) watt c) joule/Kelvin d) timensionless   |
| 14. Which of the statements is correct about Solar Energy?  |
| a) It is a renewable and conventional source of energy  |
| b) It is a non-renewable and non-conventional source of energy                                    |
| c) t is a renewable and non-conventional source of energy   |
| d) It is a non-renewable source of energy  Dr. G. Balakrishnan, M.E., Ph.D                        |
| 15. World Energy Needs are rising due to Indra Ganesan College of Engineering                     |
| a) deforestation b) increasing population and Industrialization Manikandam, Trichy-620 012.       |
| c) inflation d) natural calamities  |
| 16. Which of the following is a disadvantage of Hydro Power?                                      |
| hey cause deforestation and affect wildlife   |
| b) They cause harmful emissions   |
| c) They are an unstable source of energy  |

d) They are not suitable for long-distance electricity transmission



| 17. Which of the following statement is true about conventional energy sources?  |  |  |  |
|--|--|--|--|
| a) They cause minimum pollution  |  |  |  |
| b) They are available in limited quantity  |  |  |  |
| Co) Coal is the most used conventional energy source in the world  |  |  |  |
| d) There are sufficient reserves of Coal, Petroleum and Natural gas for the next 300 years                                   |  |  |  |
| 18. All of the conventional energy sources are Non-Renewable.  |  |  |  |
| a) True b) False   |  |  |  |
| 19. To focus on Renewable and Other alternative sources of energy, was established in March 1981 by the Government of India. |  |  |  |
| a) commission for additional sources of energy   |  |  |  |
| b) commission for alternative sources of energy  |  |  |  |
| c) council of scientific & industrial research   |  |  |  |
| d) centre for science and environment  |  |  |  |
| 20. IREDA was developed by the Government of India   |  |  |  |
| a) to implement more efficient methods for using Conventional Energy sources   |  |  |  |
| b) to promote the Development of Non-Conventional Energy Sources   |  |  |  |
| c) to develop Nuclear Energy in India  |  |  |  |
| d) to control pollution  |  |  |  |
| 21. Apart from supplying energy, fossil fuels are used for   |  |  |  |
| a) storing energy in solar ponds b) drying Vegetables  |  |  |  |
| c) rotating turbine in Hydro Power plants d) manufacture of Organic Chemicals  |  |  |  |
| 22. The only country having a full-fledged ministry for Development of New and Renewable Resources is                        |  |  |  |
| (a) India b) Bangladesh c) USA d) China  |  |  |  |
| 23. Which of the following pollutants are emitted by the burning of fossil fuel?   |  |  |  |
| a) Oxides of Carbon, Nitrogen, and Sulphur   |  |  |  |
| b) Oxides of Carbon, Uranium, and Radium   |  |  |  |
| c) Calcium Halides and Oxides of Nitrogen  |  |  |  |
| d) Noble Gases  Dr. G. Balakrishnan, M.E., Ph.D.,  Principal   |  |  |  |
| • · · · · · · · · · · · · · · · · · · ·  |  |  |  |

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



| 24. | is a petrochen      | rical and is used  | as raw mate     | rial for chemical, pharmaceutical, and |
|-----|---------------------|--------------------|-----------------|--|
|     | paint industry.     |                    |                 |  |
|     | a) Plutonium        | b) Uranium         | C) Coal         | d) Protactinium                        |
| 25. | Which of the follow | ing statements i   | s not true ab   | out radioactive waste?                 |
|     | a) It has radioacti | vity quotient of c | langerous lev   | els.                                   |
|     | b) The disposed     | radioactive waste  | e is to be guar | ded for a long period                  |
|     | et has low radi     | oactivity quotien  | nt              |  |

d) Its radioactivity decreases with time.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Name of the Student: P. KALISTA

Year/Sem: III/VI

AU Register Number: 811216105008

# Value Added Course

"Develop and Implementation of Renewable Energy systems using MATLAB" **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)** 

| 172 0 23 2 24 25 25 25 25 25 25 25 25 25 25 25 25 25                                       |
|--|
| 1. Based on usability, Energy Resources are classified into                                |
| a) primary, secondary and tertiary resources   |
| b) primary and secondary resources   |
| c) primary, secondary, intermediate and tertiary resources                                 |
| d) primary, intermediate and secondary resources   |
| 2. Which of the following is not a type of primary resource?                               |
| a) Crude Oil b) Coal Hydrogen Energy d) Sunlight   |
| 3. The ratio of energy received from a raw energy source to energy spent to obtain the raw |
| energy source is called as   |
| a) consumption ratio b) fuel ratio (c) energy yield ratio d) joule ratio                   |
| 4. Energy Resources which are being used for many decades are known as                     |
| a) conventional energy sources b non conventional energy sources                           |
| c) primary energy sources d) fuel cells  |
| 5. Which of the statements is correct about Solar Energy?                                  |
| a) It is a renewable and conventional source of energy                                     |
| b) It is a non-renewable and non-conventional source of energy                             |
| Collt is a renewable and non-conventional source of energy                                 |
| d) It is a non-renewable source of energy  |
| 6. Wind and Hydrogen energy are examples of  |
| a) primary sources (b) primary and secondary sources respectively                          |
| c) secondary sources d) tertiary sources   |
| Dr. G. Balakrishnan, M.E., Ph.D.,  |
| Principal  Indra Ganesan College of Engineering  |
|  |

ollege of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



| The state of the s |
|--|
| 7. On the basis of long-term availability, resources are classified into   |
| a) conventional and non-conventional resources   |
| renewable and non-renewable resources  |
| c) primary and secondary resources   |
| d) commercial and non-commercial resources   |
| 8. Which of these resources does not produce CO2 during electricity generation?  |
| a) Coal (b) Methane c) Uranium d) Biogas   |
| 9. On the basis of origin, energy resources are classified into natural and artificial resources.  |
| a) True (b) False  |
| 10. Which of these is the major contributor to world pollution?  |
| Commercial resources b) Non-Commercial Resources   |
| c) Renewable Resources d) Nuclear Energy   |
| 11. Half of the world's energy needs are fulfilled by renewable energy sources.  |
| a) True (b) False  |
| 12. Which of the energy resources were considered for large scale use after the oil crisis of  |
| 1973?  |
| a) Conventional Sources  Non-Conventional Sources  |
| c) Non-renewable sources d) Primary Sources  |
| 13. The unit of energy yield ratio is  |
| a) joule b) watt (c) joule/Kelvin d) dimensionless   |
| 14. Which of the statements is correct about Solar Energy?   |
| a) It is a renewable and conventional source of energy   |
| b) It is a non-renewable and non-conventional source of energy   |
| It is a renewable and non-conventional source of energy  |
| d) It is a non-renewable source of energy  |
| 15. World Energy Needs are rising due to   |
| a) deforestation b increasing population and Industrialization   |
| c) inflation d) natural calamities   |
| Dr. G. Balakrishnan, M.E., Ph.D.,  |
| Index C. Company   |
| Triura transcription of Engineering  |

woad. 12.



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| 22. | . The only coun | itry having a full-fledg    | ed ministry 1   | or Development of New     | and Renewabl   |
|-----|-----------------|-----------------------------|-----------------|---------------------------|----------------|
|     | Resources is    |                             | ,               |                           | and Kenewall   |
|     | a) India        | b) Bangladesh               | c) USA          | d) China                  |                |
| 23. | Which of the f  | following pollutants ar     | e emitted by    | the burning of fossil fue | 1?             |
|     | a) Oxides of    | of Carbon, Nitrogen, an     | d Sulphur       |                           |                |
|     | (b)Oxides       | of Carbon, Uranium, an      | d Radium 🗡      | <                         |                |
|     |                 | Halides and Oxides of       |                 |                           |                |
|     | d) Noble C      | rases                       |                 |                           |                |
| 24. | is a petro      | ochemical and is used<br>y. | as raw mater    | ial for chemical, pharm   | aceutical, and |
|     | a) Plutoniu     | m b) Uranium                | Octal           | d) Protactinium           |                |
| 25. | Which of the f  | ollowing statements is      |                 |                           |                |
|     | a) It has rad   | ioactivity quotient of da   | angerous level  | s.                        |                |
|     | b) The disp     | osed radioactive waste      | is to be guarde | ed for a long period      |                |
|     | It has lov      | w radioactivity quotient    |                 |                           |                |
|     | d) Its radioa   | ctivity decreases with ti   | ime.            |                           |                |
|     |                 |                             |                 |                           |                |
|     |                 |                             |                 |                           |                |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



#### "RASPBERRY PI"

Name of the Student:

Year/Sem:

**AU Register Number:** 

# Value Added Course

| "RASPBERRY PI"                                  |  |  |  |
|---|--|--|--|
| MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)     |  |  |  |
| 1. The Raspberry Pi is defined as the?          |  |  |  |
| a) Mini computer                                | b) Micro Computer                                    |  |  |
| c) Mega Computer                                | d) Nano Computer                                     |  |  |
| 2.Raspberry Pi consists of a quad-core pro-     | cessor or micronrocessor                             |  |  |
| a) 16-bit                                       | b) 32-bit  |  |  |
| c)64-bit  | d)128-bit  |  |  |
| 3. Which of the following is true?              |  |  |  |
|   | ) It was developed to encourage basic learning for   |  |  |
| software applications.                          | computer science studentsand other growing           |  |  |
|   | countries.   |  |  |
| c) It promotes Scratch and Python               | d) All of the above                                  |  |  |
| as the chief programming language               | d) An of the above                                   |  |  |
| 4. How much RAM, the Raspberry Pi has?          |  |  |  |
| a) 2GiB of RAM                                  | b) 1GiB of RAM                                       |  |  |
| c)4GiB of RAM                                   | d)8GiB of RAM  |  |  |
| 5. How many Input / Output pins on board Ra     |  |  |  |
| a)20  | b) 30  |  |  |
| c)40  | d) 50  |  |  |
| 6. Which of the following is a not type of Ras  |  |  |  |
| a)Raspberry Pi Alternatives                     | b) Raspberry Pi Zero W                               |  |  |
| c)Raspberry Pi 3 Model B+                       | d)Raspberry Pi 3 Model A+                            |  |  |
| 7. Which operating system Raspberry Pi has?     | a)raspoorly 115 140del 11.                           |  |  |
| a)Linux   | b) Open BSD  |  |  |
| c)Net BSD                                       | d)All of the above Dr. G. Balakrishnan, M.E., Ph.D., |  |  |
| 8. Does Raspberry Pi need external hardware?    | Principal  |  |  |
| a)TRUE  | b) FALSE Indra Ganesan College of Engineering        |  |  |
| c)Can be true or false                          | d)Cannot say IG Valley, Madurai Main Road            |  |  |
| 9. What do we use to connect TV to RPi?         | Manikandam, Trichy-620 012.                          |  |  |
| a)Male HDMI                                     | b) Female HDMI                                       |  |  |
| c)Male HDMI and Adapter                         | d) Female HDMI and Adapter                           |  |  |
| 10. What are the parameters that are default va | lues?  |  |  |
| a)Port Name and Bits                            | b) Speed and Port Names                              |  |  |
| c) Speed and Parity                             | d) Stop bit and Flow Control                         |  |  |
| 11. What is Raspberry Pi?                       | , ,  |  |  |
| a) A single-board computer                      | b) A mobile phone                                    |  |  |
|   | A tablet   |  |  |
| 12. Which programming language is commonly      |  |  |  |



#### "RASPBERRY PI"

| Print M   |   |    |
|---|---|----|
| a) C++  | b) Java   |    |
| c) Python   | d) Ruby   |    |
| 13. What is the operating system used by                                  | Raspberry Pi?   |    |
| a) Windows 10   | b) macOS  |    |
| c) Raspbian   | d) Ubuntu   |    |
| 14. What is the maximum resolution supp                                   | orted by Raspberry Pi?                                    |    |
| a) 720p   | b) 1080p  |    |
| c) 4K   | d) 8K   |    |
| 15. What is the recommended power supp                                    | lly voltage for Raspberry Pi?                             |    |
| a) 5V   | b) 9V   |    |
| c) 12V  | d) 15V  |    |
| 16. Which GPIO pin is used for ground co                                  | onnection in Raspberry Pi?                                |    |
| a) GPIO0  | b) GPIO1  |    |
| c) GPIO2  | d) GPIO3  |    |
| 17. Which version of Bluetooth is supported                               | ed by Raspberry Pi 3?                                     |    |
| a) Bluetooth 2.0  | b) Bluetooth 3.0  |    |
| c) Bluetooth 4.0  | d) Bluetooth 5.0  |    |
| 18. What is the purpose of the Raspberry P.                               |   |    |
| a) To capture photos and videos   | b) To display images on a screen                          |    |
| <ul> <li>c) To control motors and sensors</li> </ul>                      | d) To connect to the internet                             |    |
| 19. What is the purpose of the Raspberry P                                | i sense HAT?  |    |
| <ul> <li>a) To measure temperature, pressure,<br/>and humidity</li> </ul> | b) To control motors and sensors                          |    |
| <ul> <li>c) To capture photos and videos</li> </ul>                       | d) To connect to the internet                             |    |
| 20. What is the maximum number of USB I                                   | ports available on Raspberry Pi 4?                        |    |
| a) 2  | b) 3  |    |
| c) 4  | d) 5  |    |
| 21. Which type of memory is used by Rasph                                 | 7   | D. |
| a) RAM  | b) ROM Principal  |    |
| c) Flash  | d) Cache Indra Ganesan College of Engineerin              | ıg |
| 22. What is the purpose of the Raspberry Pi                               | GPIO pins? IG Valley, Madurai Main Road                   |    |
| a) To provide power to the Raspberry     Pi                               | b) To connect to the internet Manikandam, Trichy-620 012. |    |
| c) To control external devices and sensors                                | d) To display images on a screen                          |    |
| 23. What is the maximum amount of RAM s                                   | supported by Raspberry Pi 4?                              |    |
| a) 1GB  | b) 2GB  |    |
| c) 4GB  | d) 8GB  |    |
| 24. What is the purpose of the Raspberry Pi                               |   |    |
| a)To provide power to the Raspberry Pi                                    | b)To connect to the internet                              |    |
| c)To control external devices and sensors                                 | d)To display images on a screen                           |    |
| 25. Which component of Raspberry Pi allow                                 | vs it to connect to the internetwirelessly?               |    |
| a) Ethernet port  | b) Wi-Fi module   |    |
| c) Bluetooth module   | d) USB port   |    |
|   | my me me me of the second                                 |    |



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

# Value Added Course

## "RASPBERRY PI"

#### ANSWER KEY

| 1 | A | 6  | D | 11 | A | 16 | В | 21 | C |
|---|---|----|---|----|---|----|---|----|---|
| 2 | С | 7  | D | 12 | С | 17 | C | 22 | C |
| 3 | D | 8  | В | 13 | C | 18 | A | 23 | D |
| 4 | В | 9  | C | 14 | В | 19 | A | 24 | В |
| 5 | C | 10 | В | 15 | A | 20 | В | 25 | С |

**VAC Coordinator** 

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Modurni Main Road (NH-458), Manihandam, Trichy-12.
Approved by AICTE, NewDoini & Affiliated to Anna University, Chennal

# Value Added Course

"RASPBERRY PF"

Name of the Student: R. Menaka.

Year/Sem: III I

AU Register Number: 811216106015

# Value Added Course

"RASPBERRY PI"

| (0) |
|-----|
| 101 |
| 25/ |

| MULTIPLE CHO   | ICE QUESTIONS (25X1 = 25  | Marks (25)  |
|--|---|---|
| 1. The Rasphera, Di is december 4  |   |   |
| 1. The Raspberry Pi is defined as the?  2. Raspberry Pi computer  2. Raspberry Pi consists of a quad-core  a) 16-bit  3. Which of the following is true?  At is considered superior at | b) Micro Computer d) Nano Computer processor or microprocessor b) 32-bit d)128-bit b) It was developed to enc |   |
| c) It promotes Scratch and Python as the chief programming language  | computer science studen countries.  d) All of the above   | Isand other growing   |
| 4. How much RAM, the Raspberry Pi has  a) 2GiB of RAM c)4GiB of RAM 5. How many Input / Output pins on board a)20  | d)8GiB of RAM<br>d)8GiB of RAM<br>l Raspberry Pi3 has?  |   |
| 6. Which of the following is a not type of I aspherry Pi Alternatives (c) Raspberry Pi 3 Model B+  | b) Raspberry Pi Zero W  |   |
| 7. Which operating system Raspberry Pi ha<br>a) Linux<br>c) Net BSD<br>8. Does Raspberry Pi need external hardwa<br>a) TRUE  | b) Open BSD  All Of the above   | Dr. G. Balakrishnan, M.E., Ph.D   |
| c)Can be true or false  9.What do we use to connect TV to RPi?  a) Male HDMI  ANDICHDMI and Adapter  | b) Female HDMI  | Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| a) Port Name and Bits c) Speed and Parity 11. What is Raspberry Pi?  | d) Stop bit and Flow Con  | 200   |
| c) A single-board computer c) A gaming console 12. Which programming language is commo   | b) A mobile phone d) A tablet mly used with Raspberry Pi?   |   |



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy 12, Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

# Value Added Course

| "R  | ASPBERRY PI"           |                                  |
|---|------------------------|----------------------------------|
| Xc-   | b) Java                |                                  |
| c) Python   | d) Ruby                |                                  |
| 13. What is the operating system used by          | Raspherry Pi?          |                                  |
| a) Windows 10                                     | b) macOS               |                                  |
| at Kasphian                                       | d) Ubuntu              |                                  |
| 14. What is the maximum resolution supp           | orted by Raspherry Pi  | ?                                |
| a) 720p   | Josep 1080p            |                                  |
| c) 4K   | d) 8K                  |                                  |
| 15. What is the recommended power supp            | ly voltage for Raspber | rry Pi?                          |
| 2 5   | b) 9V                  |                                  |
| c) 12V  | d) 15V                 |                                  |
| 16. Which GPIO pin is used for ground co          | nnection in Raspherry  | · Pi?                            |
| a) GPIO0  | John Opion             |                                  |
| c) GPIO2  | d) GP103               |                                  |
| 17. Which version of Bluetooth is supported       | ed by Raspberry Pi 3?  |                                  |
| a) Bluetooth 2.0                                  | b) Bluetooth 3.0       |                                  |
| B) hetooth 4.0                                    | d) Bluetooth 5.0       |                                  |
| 18. What is the purpose of the Raspberry P        |                        |                                  |
| a) Fo)capture photos and videos                   | b) To display imag     | es on a screen                   |
| C) To control motors and sensors                  | d) To connect to th    | ne internet                      |
| 19. What is the purpose of the Raspberry P.       |                        |                                  |
| a) To measure temperature, pressure, and humidity | b) To control moto     | ers and sensors                  |
| Pro capture photos and videos                     | d) To connect to th    | e internet                       |
| 20. What is the maximum number of USB 1           | ports available on Ras | pberry Pi 4?                     |
| a) 2  | (در الطب               |                                  |
| c) 4  | d) .5                  |                                  |
| 21. Which type of memory is used by Raspl a) RAM  |                        |                                  |
| er tildsh   | b) ROM                 |                                  |
| 22. What is the purpose of the Raspberry Pi       | d) Cache               |                                  |
| a) To provide power to the Raspberry              |                        |                                  |
| Pi  | b) To connect to the   | uternet                          |
| 2) o control external devices and                 | d) To dissipation to a |                                  |
| sensors   | d) To display image    | es on a screen                   |
| 23. What is the maximum amount of RAM             | supported by Rashberr  | n. D: 49                         |
| a) IGB  | b) 2GB,                | y rim:                           |
| c) 4GB  | 97-50 D                |                                  |
| 24. What is the purpose of the Raspberry Pi       | Mosin handar?          |                                  |
| a) To provide power to the Raspberry Pi           |                        | a the feture                     |
| c)To control external devices and sensors         | b)To connect to        | o the internet                   |
| 25. Which component of Raspberry Pi allow         | ujio uispiay im        | nages on a screen                |
| a) Ethernet port                                  |                        | memeranelessis,                  |
| Si Biueiooth module                               | b) Wi-Fi module        |                                  |
| Authorit modifie                                  | d) USB port            | D. C. D. I. I. J. T. T. T. T. T. |
| ,   |                        | Dr. G. Balakrishnan, M.E., Ph.D  |
|   |                        | Principal                        |

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012

#### Name of the Student

Year/Sem:

## **AU Register Number:**

|    | Value Adde   | d Course   |  |  |  |  |
|----|--|--|--|--|--|--|
|    | "Model Based Systems Engineering"  |  |  |  |  |  |
|    | MCO QUESTIONS (2   | 25X4 = 100  Marks)   |  |  |  |  |
| 1. | The Unified Modeling Language (UML) has modelling. How many different notations do a) Three. |  |  |  |  |  |
|    | b) Six.  | d) Nine  |  |  |  |  |
| 2. | Which model in system modelling depicts the a) Context Model.                                | e dynamic behaviour of the system?  c) Data Model          |  |  |  |  |
|    | b) Behavioral Model  | d) Object Model  |  |  |  |  |
| 3. | Which model in system modelling depicts that a) Structural Model                             | e static nature of the system ? c) Context Model           |  |  |  |  |
|    | b) Data Model  | d) Behavioral Model.                                       |  |  |  |  |
| 4. | Which perspective in system modelling show a) Behavioral perspective                         | s the system or data architecture. c) External perspective |  |  |  |  |
|    | b) Structural perspective  | d) All of the mentioned                                    |  |  |  |  |
| 5. | Which system model is being depicted by the a) Context model                                 | ATM operations shown below:<br>c) Behavioral model         |  |  |  |  |
|    | b) Structural model  | d) Interaction model                                       |  |  |  |  |
| 6. | Activity diagrams are used to model the proca) True  | essing of data.  |  |  |  |  |
|    | b) Immobilizing.   | d) Grounding.  |  |  |  |  |
|    | Dr. G. Balakrishnan, M.E., Ph.D.,  Principal Indra Ganesan College                           |  |  |  |  |  |

ra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 7.  | <ol> <li>Model-driven engineering is just a theoretical concept. It cannot be converted into a<br/>working/executable code.</li> </ol>            |   |  |  |  |
|-----|---|---|--|--|--|
|     | a) False  | c) Movable jaw.   |  |  |  |
|     | b) True   | d) The vise screw.  |  |  |  |
| 8.  | The UML supports event-based modeling uses a) Deployment  | sing<br>c) Collaboration  |  |  |  |
|     | b) State chart  | d) All of the mentioned   |  |  |  |
| 9.  | Which of the following diagram is not support modeling?   | orted by UML considering Data-driven                                |  |  |  |
|     | a) Data Flow Diagram (DFD)  | c) State Chart  |  |  |  |
|     | b) Activity   | d) Component  |  |  |  |
| 10  | common characteristics.   | different members of classes have some                              |  |  |  |
|     | a) Realization  | c) Generalization   |  |  |  |
|     | b) Aggregation  | d) dependency   |  |  |  |
| 11. | One creates Behavioral models of a system v system architecture.  | when you are discussing and designing the                           |  |  |  |
|     | a) False.   | c) Relative size models   |  |  |  |
|     | b) True   | d) Relative size models   |  |  |  |
| 12. | a) Class, Object & diagra   | ams of UML represent Interaction modeling. c) Activity, State Chart |  |  |  |
|     | b) Use Case, Sequence   | d) All of the mentioned   |  |  |  |
|     | Which level of Entity Relationship Diagram a) Level 4   | (ERD) models all entities and relationships?                        |  |  |  |
|     | b) Level 3  | d) Level 2  |  |  |  |
|     | Dr. G. Balakrishnan, M.E., Ph.E<br>Principal<br>Indra Ganesan College of Engineeri<br>IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |   |  |  |  |

| 14. | 14 classes are used to create the interface that the user sees and interact                                    |  |  |  |
|-----|--|--|--|--|
|     | as the software is used.   |  |  |  |
|     | a) Controller  | c) Entity  |  |  |
|     | b) Boundary  | d) Business  |  |  |
| 15. | Which of the following statement is incorrect collaborator (CRC) modeling?                                     | et regarding the Class-responsibility-   |  |  |
|     | a) All use-case scenarios (and corresponding use-case diagrams) are organized into categories in CRC modelling | c) Only developers in the review (of the CRC model) are given a subset of the CRC model index cards                        |  |  |
|     | b) The review leader reads the use-case deliberately   | d) All of the mentioned  |  |  |
| 16  | A data object can encapsulates processes ar  | nd operation as well   |  |  |
| 10. | a) False   | c) Milling.  |  |  |
|     | b) Grinding.   | d) True.   |  |  |
| 17. | The two dimensions of spiral model are a) diagonal, angular  | c) radial, angular.  |  |  |
|     | b) radial, perpendicular.  | d) diagonal, perpendicular   |  |  |
| 18. | The Incremental Model is combination of ele<br>a) Build & FIX Model & Waterfall Model                          |  |  |  |
|     | b) Linear Model & RAD Model.   | d) Linear Model & Prototyping Model.   |  |  |
| 19  | Model preferred to create client/server applic   | eations is   |  |  |
| -/• | a) Concurrent Model  | c) WINWIN Spiral Model   |  |  |
|     | b) Spiral Model  | d) Incremental Model   |  |  |
| 20. | Spiral model was developed by  |  |  |  |
|     | a) Berry Boehm   | c) Bev Littlewood.   |  |  |
|     | b) Victor Bisili   | d) Roger Pressman.   |  |  |
| 21. | Software evolution does not comprises:   | Dr. G. Balakrishnan, M.E., Ph.D.,  Principal Indra Ganesan College of Engineering IG Valley, Madural Main Road  Manikandan |  |  |

Manikandam, Trichy-620 012.

| 21. | Software evolution does not comprises: a) Development activities                         | c) Maintenance activities                  |
|-----|--|--|
|     | b) Re-engineering activities.  | d) Negotiating with client                 |
| 22. | Which technique is applied to ensure the con<br>a) Reverse Engineering and Reengineering |  |
|     | b) Reengineering   | d) Forward engineering                     |
| 23  | Program modularization and Source code tra   | enslation are the activities of            |
| 23. | a) Reengineering   | c) Reverse Engineering.                    |
|     | b) Reverse Engineering and Reengineering   | d) Forward engineering                     |
| 24. | Reverse engineering is the last activity in a re   | eengineering project.                      |
| ~   | a) True  | c) False.                                  |
|     | b) X nuts.   | d) Square nuts.                            |
| 25. | The cost of re-engineering is often significant  | ntly less than the costs of developing new |
|     | software.  | c) Duplicated.                             |
|     | a) True.   | c) Duplicated.                             |
|     | b) False.  | d) Deleted                                 |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

# "Model Based Systems Engineering"

## ANSWER KEY

| 1 | d | 6  | a | 11 | a | 16 | a | 21 | d |
|---|---|----|---|----|---|----|---|----|---|
| 2 | ь | 7  | a | 12 | b | 17 | С | 22 | a |
| 3 | a | 8  | ь | 13 | d | 18 | d | 23 | a |
| 4 | b | 9  | a | 14 | b | 19 | a | 24 | С |
| 5 | a | 10 | С | 15 | С | 20 | a | 25 | a |

VAC Coordinator

Year/Sem: 🗓

Name of the Student

N. Dharman

AU Register Number: 811217114010

|    | Value Adde   | d Course  |
|----|--|---|
|    | "Model Based Syste   | ms Engineering"   |
|    | MCQ QUESTIONS (2   | 25X4 = 100  Marks)  |
| 1. | The Unified Modeling Language (UML) has modelling. How many different notations do a) Three. |   |
|    | b) Six.  | d) Nine   |
| 2. | Which model in system modelling depicts that a) Context Model.                               | ne dynamic behaviour of the system?  c) Data Model          |
|    | b) Behavioral Model  | d) Object Model   |
| 3. | Which model in system modelling depicts the Structural Model                                 | e static nature of the system? c) Context Model             |
|    | b) Data Model  | d) Behavioral Model.  |
| 4. | Which perspective in system modelling show a) Behavioral perspective                         | rs the system or data architecture. c) External perspective |
|    | (b) Structural perspective   | d) All of the mentioned                                     |
| 5. | Which system model is being depicted by the a) Context model                                 | ATM operations shown below:<br>c) Behavioral model          |
|    | b) Structural model  | d) Interaction model  |
| 6. | Activity diagrams are used to model the process.  a) True                                    | cessing of data.  |
|    | b) Immobilizing.   | d) Grounding.   |
|    | D a  |   |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| 7.  | . Model-driven engineering is just a theoretical concept. It cannot be converted into a working/executable code. |   |  |  |  |
|-----|--|---|--|--|--|
| 1   | (a) False  | c) Movable jaw.   |  |  |  |
|     | b) True  | d) The vise screw.  |  |  |  |
| 8.  | The UML supports event-based modeling  | g using   |  |  |  |
|     | a) Deployment  | c) Collaboration  |  |  |  |
| (   | State chart  | d) All of the mentioned   |  |  |  |
|     | Which of the following diagram is not su modeling?   | pported by UML considering Data-driven                                |  |  |  |
| U   | a) Data Flow Diagram (DFD)   | c) State Chart  |  |  |  |
| (   | b) Activity  | d) Component  |  |  |  |
| 10. |  | nat different members of classes have some                            |  |  |  |
| 0   | common characteristics. a) Realization   | c) Generalization   |  |  |  |
| V   |  |   |  |  |  |
| (   | b) Aggregation   | d) dependency   |  |  |  |
|     | One creates Behavioral models of a system system architecture.   | m when you are discussing and designing the                           |  |  |  |
| 0   | a) False.  | c) Relative size models   |  |  |  |
| 1   | b) True  | d) Relative size models   |  |  |  |
| 12. | a) Class, Object & dia   | grams of UML represent Interaction modeling. c) Activity, State Chart |  |  |  |
| ł   | b) Use Case, Sequence  | dall of the mentioned   |  |  |  |
|     | Which level of Entity Relationship Diagra  a) Level 4  | m (ERD) models all entities and relationships?                        |  |  |  |
| b   | b) Level 3   | d) Level 2  |  |  |  |
|     | Dr. G. Balakrishnan, M.E., P<br>Principal  |   |  |  |  |
|     | Indra Ganesan College of Engine<br>IG Valley, Madurai Main Roa   | eering  |  |  |  |
|     | Manikandam, Trichy-620 012   | a<br>2.   |  |  |  |

| 14 classes are used to create the as the software is used.   | e interface that the user sees and interacts with  |
|--|--|
| a) Controller  | c) Entity  |
| b) Boundary  | d) Business  |
| 15. Which of the following statement is incorrectly collaborator (CRC) modeling?                               | ect regarding the Class-responsibility-  |
| a) All use-case scenarios (and corresponding use-case diagrams) are organized into categories in CRC modelling | c) Only developers in the review (of the CRC model) are given a subset of the CRC model index cards                                  |
| b) The review leader reads the use-case deliberately   | d) All of the mentioned  |
| 16. A data object can encapsulates processes a   | and operation as well. c) Milling.   |
| b) Grinding.   | d) True.   |
| 17. The two dimensions of spiral model are a) diagonal, angular  | c) radial, angular.  |
| b) radial, perpendicular.  | d) diagonal, perpendicular   |
| 18. The Incremental Model is combination of each a) Build & FIX Model & Waterfall Model                        | lements of c) Waterfall Model & RAD Model  |
| b) Linear Model & RAD Model.   | d) Linear Model & Prototyping Model.   |
| 19. Model preferred to create client/server appli<br>a) Concurrent Model                                       | c) WINWIN Spiral Model   |
| b) Spiral Model  | d) Incremental Model   |
| 20. Spiral model was developed by a) Berry Boehm   | c) Bev Littlewood.   |
| byictor Bisili   | d) Roger Pressman.   |
| 21. Software evolution does not comprises:   | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trick, San |

Manikandam, Trichy-620 012.

| 21. Software evolution does not comprises:                    |  |
|---|--|
| a) Development activities                                     | c) Maintenance activities                  |
| b) Re-engineering activities.                                 | Negotiating with client                    |
| 22. Which technique is applied to ensure the con              | ntinued evolution of legacy systems?       |
| a) Reverse Engineering and Reengineering                      | c) Reverse Engineering.                    |
| b) Reengineering  | d) Forward engineering                     |
| 23. Program modularization and Source code tr                 | anslation are the activities of            |
| a) Reengineering  | c) Reverse Engineering.                    |
| b) Reverse Engineering and Reengineering                      | d) Forward engineering                     |
| 24. Reverse engineering is the last activity in a r           | eengineering project.                      |
| a) True   | (c) False.                                 |
|   | 9  |
| b) X nuts.  | d) Square nuts.                            |
| 25. The cost of re-engineering is often significant software. | ntly less than the costs of developing new |
| (a) True.   | c) Duplicated.                             |
| b) False.   | d) Deleted.                                |

Dr. G. Balakrishnan, M.E., Ph.D., Principäl Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Dr. G. Balakrishpan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

# Value Added Course

"Android App Development"

Name of the Student:

Year/Sem:

AU Register Number:

## Value Added Course

"Android App Development"

#### **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

- 1.Android isa)an operating systemb)a web browserc) a web server
- 2. Under which of the following Android is licensed?
  - a)OSS
  - b)Sourceforge
  - c)Apache/MIT
  - d)None of the above

d)None of the above

- 3. For which of the following Android is mainly developed?
  - a) Servers
  - b)Desktops
  - c)Laptops
  - d)Mobile devices
- 4. Which of the following is the first mobile phone released that ran the Android OS?
  - a) HTC Hero
  - b)Google gPhone
  - c)T Mobile G1
  - d)None of the above



| Value Added  | Course  |
|--|---|
| "Android App Deve  | lopment"  |
| 5. Which of the following virtual machine is used by the Android operati | ing system?   |
| a)JVM  |   |
| b)Dalvik virtual machine   |   |
| c)Simple virtual machine   |   |
| d)None of the above  |   |
| 6. Android is based on which of the following language?                  |   |
| a) Java  |   |
| b)C++  |   |
| c)C  |   |
| d)None of the above  |   |
| 7. APK stands for -  |   |
| a)Android Phone Kit  | (D).  |
| b)Android Page Kit   | Dr. G. Balakrishnan, M.E., Ph.D.,                           |
| c)Android Package Kit  | Principal Indra Ganesan College of Engineering              |
| d)None of the above  | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| 8. What does API stand for?  |   |
| a)Application Programming Interface                                      |   |
| b)Android Programming Interface  |   |
| c)Android Page Interface   |   |
| d)Application Page Interface   |   |
| 9. Which of the following converts Java byte code into Dal               | Ivik byte code?   |

a)Dalvik converter

c)Mobile interpretive compiler (MIC)

b)Dex compiler



"Android App Development"

- 10. How can we stop the services in android?
- a)By using the stopSelf() and stopService() method
- b)By using the finish() method
- c)By using system.exit() method
- d)None of the above
- 11. What is an activity in android?
- a)android class
- b)android package
- c)A single screen in an application with supporting java code
- d)None of the above
- 12. How can we kill an activity in android?
- a)Using finish() method
- b)Using finishActivity(int requestCode)
- c)Both (a) and (b)
- d)Neither (a) nor (b)
- 13. ADB stands for -
- a)Android debug bridge
- b)Android delete bridge
- c)Android destroy bridge
- d)None of the above
- 14. On which of the following, developers can test the application, during developing the android applications?
- a)Third-party emulators
- b)Emulator included in Android SDK
- c)Physical android phone

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



D

In

a)Yes

b)No

c)May be

| Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai |  |
|---|--|
| r. G. Balakrishnan, M.E., Ph.D.,  |  |
| Principal adra Ganesan College of Engineering Value Added Course  |  |
| IG Valley, Madurai Main Road  Manikandam, Trichy-620 012. "Android App Development"                                     |  |
| Thistory Table 1  |  |
| 15. Which of the following kernel is used in Android?   |  |
| a)MAC   |  |
| b)Windows   |  |
| c)Linux   |  |
| d)Redhat  |  |
| 16. Which of the following is the first callback method that is invoked by the system during an activity life-cycle?    |  |
| a)onClick() method  |  |
| b)onCreate() method   |  |
| c)onStart() method  |  |
| d)onRestart() method  |  |
| 17. Which of the following is not an activity lifecycle callback method?  |  |
| a)onClick() method  |  |
| b)onCreate() method   |  |
| c)onStart() method  |  |
| d)onBackPressed() method  |  |
| 18. We require an AVD to create an emulator. What does AVD stand for?   |  |
| a)Android Virtual device  |  |
| b)Android Virtual display   |  |
| c)Active Virtual display  |  |
| d)Active Virtual device   |  |
| 19. Does android support other languages than java?   |  |
|   |  |



"Android App Development"

| 20. | What is | the use | of | content | provider | in | Android? |
|-----|---------|---------|----|---------|----------|----|----------|
|-----|---------|---------|----|---------|----------|----|----------|

- a)For storing the data in the database
- b)For sharing the data between applications
- c)For sending the data from an application to another application
- d)None of the above

#### 21. AAPT stands for -

- a)Android Activity Packaging Tool
- b)Android Asset Packaging Tool
- c)Android Action Packaging Tool
- d)None of the above

22. NDK stands for -

a)Native Development Kit

b)New Development kit

c)Native Design Kit

d)None of the above

23. Which of the following is contained in the src folder?

a)XML

b)Java source code

c)Manifest

d)None of the above

24. Which of the following method is used to handle what happens after clicking a button?

a)onClick

b)onCreate

c)onSelect

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-62@ 012.



"Android App Development"

- 25. Which of the following android component displays the part of an activity on screen?
  - a)View
  - b)Manifest
  - c)Intent
  - d)Fragmen

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan Cellege of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



"Android App Development"

#### ANSWER KEY

| 1 | a | 6  | a | 11 | c | 16 | ь | 21 | ь |
|---|---|----|---|----|---|----|---|----|---|
| 2 | c | 7  | С | 12 | С | 17 | d | 22 | a |
| 3 | d | 8  | a | 13 | a | 18 | a | 23 | ь |
| 4 | С | 9  | ъ | 14 | d | 19 | a | 24 | d |
| 5 | b | 10 | a | 15 | С | 20 | С | 25 | a |

VAC Coordinator

Khnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



# Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

18-19

# Added Course

"Android App Development"

Name of the Student: Deepa Lakshuri. N

Year/Sem:

**AU Register Number:** 

811215205010

Value Added Course

"Android App Development"

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- 1.Android is
  - a)an operating system
  - b)a web browser
  - c) a web server
  - d)None of the above
- 2. Under which of the following Android is licensed?

a)OSS

b)Sourceforge

elApache/MIT

d)None of the above

3. For which of the following Android is mainly developed?

a) Servers

b)Desktops

c)Laptops

4. Which of the following is the first mobile phone released that ran the Android OS?

HIC Hero

d)Mobile devices

b)Google gPhone

c)T - Mobile G1

d)None of the above

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



| ., ,   |   |
|--|---|
| Added  | Course  |
| "Android App<br>b)Dalvik virtual machine           | Development"  |
| d)None of the above                                |   |
| 6. Android is based on which of the following lang | guage?  |
| a) Java  |   |
| b)C++  | (A.)  |
| DP   | Dr. G. Balakrishnan, M.E., Ph.D.                            |
| d)None of the above                                | Indra Ganesan College of Engineering                        |
| 7. APK stands for -                                | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| a)Android Phone Kit                                | 7c.tly 020 012.   |
| b)Android Page Kit                                 |   |
| c)Android Package Kit                              |   |
| d)None of the above                                |   |
| 8. What does API stand for?                        |   |
| a)Application Programming Interface                |   |
| b)Android Programming Interface                    |   |
| c)Android Page Interface                           |   |
| d)Application Page Interface                       |   |
| 9. Which of the following converts Java byte code  | into Dalvik byte code?                                      |
| a)Dalvik converter                                 |   |
| b)Dex compiler                                     |   |
| o)Mobile interpretive compiler (MIC)               |   |
| d)None of the above                                |   |

a)By using the stopSelf() and stopService() method

10. How can we stop the services in android?



# Added Course

"Android App Development"

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

| c)By | using | system.exit() | method |
|------|-------|---------------|--------|
|------|-------|---------------|--------|

- d)None of the above
- 11. What is an activity in android?
  - a)android class
  - b)android package
  - c)A single screen in an application with supporting java code
  - d)None of the above

12. How can we kill an activity in android?

a)Using finish() method

b)Using finishActivity(int requestCode)

c)Both (a) and (b)

d) Neither (a) nor (b)

13. ADB stands for -

a)Android debug bridge

b)Android delete bridge

Android destroy bridge

d)None of the above

14. On which of the following, developers can test the application, during developing the android applications?

a)Third-party emulators

b)Emulator included in Android SDK

c)Physical android phone

d)All of the above

15. Which of the following kernel is used in Android?

a)MAC

b)Windows

g)Linux



# Added Course

|         |                                 | "Android App Developme                | ent"  |
|---------|---------------------------------|---------------------------------------|---|
|         | d)Redhat                        |                                       |   |
| 16. Wh  | ich of the following is the fir | st callback method that is invoked by | the system during an activity life-cycle                          |
|         | a)onClick() method              |                                       |   |
|         | b)onCreate() method             |                                       |   |
|         | (a) OhStart() method            | /                                     |   |
|         | d)onRestart() method            |                                       |   |
| 17. Whi | ch of the following is not an   | activity lifecycle callback method?   |   |
|         | a)onClick() method              |                                       | (D:   |
|         | b)onCreate() method             |                                       | Dr. G. Balakrishnan, M.E., Ph.D                                   |
|         | c)onStart() method              |                                       | Indra Ganesan College of Engineering IG Valley, Madurai Main Road |
|         |                                 |                                       | Monitor I want want Road  |

Manikandam, Trichy-620 012.

18. We require an AVD to create an emulator. What does AVD stand for?

a)Android Virtual device

d)onBackPressed() method

b)Android Virtual display

c)Active Virtual display

d)Active Virtual device

19. Does android support other languages than java?

a)Yes

b)No

c)May be

d)Can't say

20. What is the use of content provider in Android?

a)For storing the data in the database

b)For sharing the data between applications

(c)For sending the data from an application to another application



| _Added Cod  | 1150   |
|---|--|
| "Android App Develo   | opment"  |
| a)Android Activity Packaging Tool b)Android Asset Packaging Tool c)Android Action Packaging Tool d)None of the above  22. NDK stands for - a)Native Development Kit b)New Development kit c)Native Design Kit | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| d)None of the above  23. Which of the following is contained in the src folder?  a)XML  b)Java source code  c)Manifest  d)None of the above   | Indra Ganesan College of Engineering IG Valley, Madurai Main Road Mankangan Man 1-620 012. |
| 24. Which of the following method is used to handle what happens a a)onClick b)onCreate c)onSelect d)None of the above  |  |
| 25. Which of the following android component displays the part of a   | in activity on screen?   |

a)View

c)Intent

d)Fragmen

b) Wanifest



"Android App Development"

Name of the Student: Kouan. K

Year/Sem:

AU Register Number: 811215205 018

# Value Added Course

"Android App Development"

# **MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)**

1.Android is

a)an operating system

b)a web browser

- c) a web server
- d)None of the above
- 2. Under which of the following Android is licensed?

a)OSS

b)Sourceforge

Apache/MIT

d)None of the above

3. For which of the following Android is mainly developed?

a) Servers

b)Desktops

Laptops

d)Mobile devices

4. Which of the following is the first mobile phone released that ran the Android OS?

a) HTC Hero

b)Google gPhone

Mobile G1

d)None of the above

5. Which of the following virtual machine is used by the Android operating system?

a)JVM

Dr. G. Balakrishnan, M.E., Ph.D.,



| "Android A | App Deve | lopment" |
|------------|----------|----------|
|------------|----------|----------|

b)Dalvik virtual machine

simple virtual machine

d)None of the above

6. Android is based on which of the following language?

a) Java

b)C++

c)C

d)None of the above

7. APK stands for -

a)Android Phone Kit

b)Android Page Kit

Android Package Kit

d)None of the above

8. What does API stand for?

a) Application Programming Interface

Android Programming Interface

c)Android Page Interface

d)Application Page Interface

9. Which of the following converts Java byte code into Dalvik byte code?

a)Dalvik converter

b)Dex compiler

c)Mobile interpretive compiler (MIC)

d)None of the above

10. How can we stop the services in android?

a)By using the stopSelf() and stopService() method

ريد. G. Balakrishnan, M.E., 🥙 نير. Principal



"Android App Development"

c)By using system.exit() method

d)None of the above

| 11. What is an activity in android? | and the second |
|-------------------------------------|----------------|
| a)android class                     |                |
| b)android package                   | ŕ              |

A single screen in an application with supporting java code

d)None of the above

12. How can we kill an activity in android?

a)Using finish() method

b)Using finishActivity(int requestCode)

a)Both (a) and (b)

d)Neither (a) nor (b)

13. ADB stands for -

a)Android debug bridge

Android delete bridge

c)Android destroy bridge

d)None of the above

D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

14. On which of the following, developers can test the application, during developing the android applications?

a)Third-party emulators

b)Emulator included in Android SDK

c)Physical android phone

d)All of the above

15. Which of the following kernel is used in Android?

a)MAC

/b)Windows



|         | Added Cou   | rse   |
|---------|---|---|
|         | "Android App Develo   | ppment"   |
| 16. Whi | ch of the following is the first callback method that is invok  | ed by the system during an activity life-cycle?             |
|         | a)onClick() method  |   |
|         | b)onCreate() method c)onStart() method                          |   |
|         | d)onRestart() method  |   |
| 7. Whi  | ch of the following is not an activity lifecycle callback metho | od?   |
|         | a)onClick() method b)onCreate() method                          |   |
|         | OnStart() method  |   |
|         | d)onBackPressed() method  |   |
| 8. We r | equire an AVD to create an emulator. What does AVD stand        | d for?  |
| •       | a)Android Virtual device  |   |
|         | b)Android Virtual display                                       | )   |
|         | c)Active Virtual display  | (D:   |
|         | d)Active Virtual device   | Dr. G. Balakrishnan, M.E., Ph.D.,                           |
| 9. Does | android support other languages than java?                      | Indra Ganesan College of Engine                             |
| •       | a) Yes  | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
|         | b)No  |   |
|         | c)May be  |   |

d)Can't say

20. What is the use of content provider in Android?

a)For storing the data in the database

b)For sharing the data between applications



d)Fragmen

# Added Course

| 114404 004150   |
|---|
| "Android App Development"  21. AAPT stands for -  |
| A)Android Activity Packaging Tool   |
| b)Android Asset Packaging Tool  |
| c)Android Action Packaging Tool   |
| d)None of the above   |
| 22. NDK stands for -  |
| Native Development Kit  |
| b)New Development kit   |
| c)Native Design Kit   |
| d)None of the above   |
| 23. Which of the following is contained in the src folder?  |
| a)XML  Dr. G. Balakrishnan, M.E., Ph.D.  Principal Indra Ganesan College of Engineering IG Valley, Wadura Main Road Manuack and Principal Indra Ganesan College of Engineering IG Valley, Wadura Main Road Manuack and Principal Indra Ganesan College of Engineering IG Valley, Wadura Main Road |
| 24. Which of the following method is used to handle what happens after clicking a button?   |
| a)on@lick   |
| b)onCreate  |
| c)onSelect  |
| d)None of the above   |
| 25. Which of the following android component displays the part of an activity on screen?  |
| a Vilew   |
| b)Manifest  |
| c)Intent  |



Road (NH-45B), Manikandam Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

# Added Course

"Android App Development"

Name of the Student: Parameshwani. k

Year/Sem: 111

**AU Register Number:** 

811216205015

Value Added Course

"Android App Development"

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1.Android is

an operating system

b)a web browser

c) a web server

d)None of the above

2. Under which of the following Android is licensed?

a)OSS

b)Sourceforge

e)Apache/MIT

d)None of the above

3. For which of the following Android is mainly developed?

a) Servers

b)Desktops

c)Laptops

Mobile devices

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

4. Which of the following is the first mobile phone released that ran the Android OS?

a) HTC Hero

b)Google gPhone

c)T - Mobile G1

None of the above

5. Which of the following virtual machine is used by the Android operating system?



| b)Dalvik | virtual | machine |
|----------|---------|---------|
| Dalvik   | virtual | machine |

"Android App Development"

c)Simple virtual machine

X

d)None of the above

6. Android is based on which of the following language?

a) Java

b)C++

c)C

d)None of the above

7. APK stands for -

a)Android Phone Kit

b)Android Page Kit

Android Package Kit

d)None of the above

8. What does API stand for?

Application Programming Interface

b)Android Programming Interface

c)Android Page Interface

d)Application Page Interface

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Read
Manikandam, Trichy-620 012.

9. Which of the following converts Java byte code into Dalvik byte code?

a)Dalvik converter

b)Dex compiler

c)Mobile interpretive compiler (MIC)

None of the above

10. How can we stop the services in android?

a)By using the stopSelf() and stopService() method

b)By using the finish() method





"Android App Development"

- c)By using system.exit() method
- d)None of the above
- 11. What is an activity in android?

a)android class

b)android package

A kingle screen in an application with supporting java code

d)None of the above

12. How can we kill an activity in android?

a)Using finish() method

b)Using finishActivity(int requestCode)

c)Both (a) and (b)

d)Neither (a) nor (b)

13. ADB stands for -

Android debug bridge

b)Android delete bridge

c)Android destroy bridge

d)None of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

14. On which of the following, developers can test the application, during developing the android applications?

a)Third-party emulators

b)Emulator included in Android SDK

c)Physical android phone

(A) All of the above

15. Which of the following kernel is used in Android?

MAC

b)Windows



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

| Added Con  | urse   |
|--|--|
| "Android App Deve  | lopment"   |
| d)Redhat   |  |
| 16. Which of the following is the first callback method that is invo | oked by the system during an activity life-cycle?  |
| a)onClick() method   |  |
| b)onCreate() method  |  |
| c)onStart() method   |  |
| d)onRestart() method   |  |
| 17. Which of the following is not an activity lifecycle callback me  | thod?  |
| a)onClick() method   |  |
| b)onCreate() method  |  |
| c)onStart() method   |  |
| d)onBackPressed() method   |  |
| 18. We require an AVD to create an emulator. What does AVD st        | and for?   |
| a)Android Virtual device   |  |
| b)Android Virtual display  |  |
| c)Active Virtual display   | (0.:/  |
| d)Active Virtual device  |  |
| 19. Does android support other languages than java?                  | Dr. G. Balakrishnan, M.E., Ph.D.,  |
| a)Y9s  | college of Engineering   |
| b)No   | Indra Ganesan College of Disparsion Indra Ganesan Indra Ganesa |
| c)May be   |  |
| d)Can't say  |  |
| 20. What is the use of content provider in Android?                  |  |

a)For storing the data in the database

b) For sharing the data between applications

()For sending the data from an application to another application



"Android App Development"

| 21. AAPT stands for -   |        |
|---|--------|
| a)Android Activity Packaging Tool   |        |
| b)Android Asset Packaging Tool  |        |
| c)Android Action Packaging Tool   |        |
| d)None of the above   |        |
| 22. NDK stands for -  |        |
| a)Native Development Kit  |        |
| b)New Development kit   |        |
| c)Native Design Kit   |        |
| Mone of the above   |        |
| 23. Which of the following is contained in the src folder?                                |        |
| a)XML   |        |
| Java source code  |        |
| c)Manifest  |        |
| d)None of the above   |        |
| 24. Which of the following method is used to handle what happens after clicking a button? |        |
| a)onClick  Dr. G. Balakrishnan, M.  | F Dh D |
| b)onCreate Principal Indra Ganesan Cellege of Eng   |        |
| c)onSelect Salley, Madurai Main R   | head   |
| d)None of the above   | J12.   |
| 25. Which of the following android component displays the part of an activity on screen?  |        |
| a) View   |        |
| b)Manifest  |        |
| c)Intent  |        |
| d)Fragmen   |        |

Name of the Student:

Vear/Sem:

**AU Register Number:** 

# Value Added Course

"An advance approach to web designing"

# MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)

| 1. | What | İS | hypermedia |
|----|------|----|------------|
|    |      |    |            |

- Print media A.
- Computing, communications, and content. B.
- Interactive media C.
- Video, audio, text. D.

#### Search Engine Optimisation is 2.

- Frequency and priority of site in search A.
- Hosting content in search engine B.
- Developing a search engine C.
- None of the above D.

#### What is videoblog 3.

- Video communication A.
- Web television B.
- Video documentary C.
- Video magazine D.

#### XML is\_ 4.

- Extensible markup language. A.
- Embedded markup language B.
- Electronic markup language C.
- None of the above D.

р

## Blogosphere is

- 5. Connected community of blogs A.
- Collection of blogs by an author B.
- Association of bloggers C.
- None of the above D.

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 



| 6. | Cyberspace | is |
|----|------------|----|
| ~- |            |    |

- Interdependent computer network for communication A.
- Memory space available in a computer B.
- Space technology applications C.
- None of the above D.

#### **IPR** means 7.

- Intelligent programme recorder A.
- Intellectual property rights B.
- Independent property records C.
- Interactive programme records D.

## 8. URL means

- A. Universal resource location
- B. Uniform resource locator
- C. Universal records label
- D. None of the above

#### What is Arpanet 9.

- Network by European commission A.
- Network for world wide web B.
- Local area network for education C.
- First packet switched network D.

#### Online Shopping is 10.

- E-commerce A.
- Computerization of commerce B.
- Computer trade C.
- None of the above D.

#### What is Tim Berners Lee 11.

- World wide web Α.
- Arpanet B.
- Hypertext editing system C.
- Personal computer D.

#### Cyber Forensic is 12.

- Investigation of computer crime A.
- Investigation of traffic offence B.
- Forensic science of investigation C.
- None of the ab D.

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 



| 13. | Cyber | space | is |
|-----|-------|-------|----|
|-----|-------|-------|----|

- Anything associated with internet A.
- Space for web design B.
- Server space C.
- None of the above D.

#### Intranet means 14.

- Computer network within an organization A.
- Wide area network B.
- Portal C.
- None of the above D.

#### A media presentation over Internet 15.

- Webcasting A.
- Video conference B.
- Live television broadcast C.
- Offline presentation D.

#### HTML is 16.

- Hypertext markup language A.
- Hypermdia marking language B.
- Design html C.
- None of the above D.

#### Online encyclopedia 17.

- Wikipedia A.
- Mathrubhumi.com B.
- University site C.
- None of the above D.

## 18. Media convergence

- Print media A.
- Computing, communications, and content. B.
- Interactive media C.
- Video, audio, text. D.

#### Interactive Media 19.

- Media responds to users actions A.
- Linear media B.
- Print media C.
- None of the above D.

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 



- 20. DHTML is
- A. Data html
- B. Dynamic html
- C. Design html
- D. None of the above
- 21. Episodes is
- A. Interactive web pages
- B. Episode of internet tv
- C. Tv episode
- D. None of the above
- 22. What is social web site
- A. Wikileakes
- B. Wikipedia
- C. Face book
- D. Yahoo
- 23. What is Search Engine
- A. Wikipedia
- B. Mathrubhumi.com
- C. Google
- D. None of the above
- 24. ENG means
- A. Electronic news group
- B. Editing of non linear
- C. Electronic news gathering
- D. None of the above

## 25. HTML means

- A. Web
- B. Multimedia
- C. Print media
- D. Game programming

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

# Value Added Course

"An advance approach to web designing"

## ANSWER KEY

|    |   |    |   |    |   | w-10 |   | 1  |   |
|----|---|----|---|----|---|------|---|----|---|
| 1. | С | 6  | D | 11 | Α | 16   | A | 21 | В |
| 2  | Α | 7  | В | 12 | A | 17   | A | 22 | С |
| 3  | D | 8  | В | 13 | A | 18   | В | 23 | С |
| 4  | A | 9  | D | 14 | Α | 19   | A | 24 | С |
| 5  | A | 10 | A | 15 | Α | 20   | В | 25 | A |

T. Kalairai

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Name of the Student: A - James Raja

AU Register Number: 8 11 218 11 A OOS

Year/Sem: T /T

Value Added Course

"An advance approach to web designing"

#### **MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)**

- 1. What is hypermedia
- Print media A.
- B. Computing, communications, and content.
- (C.) Interactive media
- D. Video, audio, text.
- 2. **Search Engine Optimisation is**
- A. Frequency and priority of site in search
- B.) Hosting content in search engine
- C. Developing a search engine
- D. None of the above
- 3. What is videoblog
- Video communication A.
- B. Web television
- C. Video documentary
- (D) Video magazine
- 4. XML is
- A. Extensible markup language.
- B. Embedded markup language
- (C.) Electronic markup language
- None of the above D.
- 5. Blogosphere is
- (A.) Connected community of blogs
- Collection of blogs by an author В.
- C. Association of bloggers
- None of the above D.

Dr. G. Balakrishnan, M.E., Ph.D., **Principal** 



## 6. Cyberspace is

- A. Interdependent computer network for communication
- B. Memory space available in a computer
- C. Space technology applications
- D. None of the above

#### 7. IPR means

- A. Intelligent programme recorder
- B. Intellectual property rights
- C. Independent property records
- D. Interactive programme records

#### 8. URL means

- A. Universal resource location
- B. Uniform resource locator
- C. Universal records label
- D. None of the above

### 9. What is Arpanet

- A. Network by European commission
- B. Network for world wide web
- C. Local area network for education
- D. First packet switched network

#### 10. Online Shopping is

- A. E-commerce
- B. Computerization of commerce
- C. Computer trade
- D. None of the above

### 11. What is Tim Berners Lee

- A. World wide web
- B. Arpanet
- (C.) Hypertext editing system
- D. Personal computer

## 12. Cyber Forensic is

- A. Investigation of computer crime
- B. Investigation of traffic offence
- C. Forensic science of investigation
- D. None of the ab

10

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



## 13. Cyber space is\_\_\_\_

- A. Anything associated with internet
- B. Space for web design
- C. Server space
- D. None of the above

## 14. Intranet means

- (A.) Computer network within an organization
- B. Wide area network
- C. Portal
- D. None of the above

## 15. A media presentation over Internet

- A. Webcasting
- B. Video conference
- C. Live television broadcast
- D. Offline presentation

#### 16. HTML is

- A. Hypertext markup language
- B. Hypermdia marking language
- C. Design html
- D. None of the above

#### 17. Online encyclopedia

- A. Wikipedia
- B. Mathrubhumi.com
- C. University site
- D. None of the above

## 18. Media convergence

- A. Print media
- B. Computing, communications, and content.
- C. Interactive media
- D. Video, audio, text.

#### 19. Interactive Media

- A. Media responds to users actions
- B. Linear media
- C. Print media
- D. None of the above

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



### 20. DHTML is

- A. Data html
- B. Dynamic html
- C. Design html
- D. None of the above

## 21. Episodes is

- A. Interactive web pages
- (B) Episode of internet tv
- C. Tv episode
- D. None of the above

#### 22. What is social web site

- A. Wikileakes
- B. Wikipedia
- C. Face book
- D. Yahoo

## 23. What is Search Engine

- A. Wikipedia
- B. Mathrubhumi.com
- C. Google
- D. None of the above

### 24. ENG means

- A. Electronic news group
- B. Editing of non linear
- C. Electronic news gathering
- D. None of the above

#### 25. HTML means

- A. Web
- B. Multimedia
- C. Print media
- D. Game programming

Dr. G. Balakrishnan, M.E., Ph.D.,

**Principal** 



Name of the Student:

Year/Sem:

**AU Register Number:** 

Value Added Course on "Managerial Accounting Using Tally"

|   | MCO OT  | <u>JESTI</u> | ONS (                       | 25X4 = 100  Marks                        | )  |
|---|---|--------------|-----------------------------|--|--|
| A.<br>B.<br>C.<br>D.<br>2. <b>H</b><br>A. | ally package is developed Peutronics Tally Solutions Coral Softwares Vedika Softwares ow many type of compan 2 B. 3 C. hich menu appears after Gateway of Tally Display | ies can<br>4 | D.<br><b>g Tally</b><br>Con | ated in Tally? Inc. 5                    | r. G. Balakrishnan, M.E., Ph.D., Principal dra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| 4. W<br>Gate                              | hich shortcut key is presseway of Tally?  | sed to g     | o to co                     | mpany Info. Menu f                       | rom  |
| Α.  | Alt+F4 B. Alt+ hich key is pressed to go to Ctrl B. Alt hich option is used in Tal  | to Gate      | C.                          | Esc D                                    | Enter  |
| A.  | Select Company  | B.           | Shut                        | Company                                  |  |
| C.  | Alter   | D.           | None                        | e of these                               |  |
| 7. Will Com; A. C.                        | hich option from Compar<br>pany inTally?<br>Company Create<br>Create  | y Info.      | В.                          | Create Company                           | a new  |
| 8. WI                                     | uich option is selected from<br>vo financial years?<br>Change Tally Vault   | m Com        | D.<br><b>pany I</b><br>B.   | New Company  nfo Menu to divide c  Alter | company data   |
| C.  | Split Company Data  |              | D.                          | New Company                              |  |
| 9. Wh                                     | nich option is used to copy   | compa        | ny's d                      | ata into pen drive or                    | · CD?  |
| A.  | Backup  |              | В.                          | Restore                                  |  |
| C.  | Split Company Data  |              | D.                          | Copy Data                                |  |



| 10. | Whi  | ch opti | ion is | used to | o place | data | taken | in pen | drive | or CD | to Appro | nriate |
|-----|------|---------|--------|---------|---------|------|-------|--------|-------|-------|----------|--------|
| pla | cein | Tally?  |        |         | _       |      |       |        |       |       | PP-0     | размо  |

| A.          | . Backup                      |                    |                           | В.                 | Re                | store          |                   |   |  |  |
|-------------|-------------------------------|--------------------|---------------------------|--------------------|-------------------|----------------|-------------------|---|--|--|
| C.          | Split Com                     | npany D            | ata                       | D.                 | No                | ne of the      | se                |   |  |  |
| 11          | . Which optio                 | n is use           | ed to open co             | ompany             | created in Tally? |                |                   |   |  |  |
| A.          | Create Co                     | mpany              |                           | В.                 | Alt               | er             |                   | 10  |  |  |
| C.          | Select Cor                    | mpany              |                           | D.                 | Shu               | at Compa       | any <sup>D1</sup> | r. G. Balakrishnan, M.E., Ph.D.,                            |  |  |
| 12          | . Which option                | n is use           | ed in Tally to            | close o            | pened             | Compai         | nv?inc            | Principal dra Ganesan College of Engineering                |  |  |
| A.          |                               |                    | •                         | В.                 | -                 | ıt Compa       | •                 | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |  |  |
| C.          | Create Co                     | Create Company     |                           |                    |                   | Select Company |                   |   |  |  |
|             |                               |                    | • •                       | D.                 |                   | _              | •                 |   |  |  |
| 13.         | Which shorte                  | eut key            | is used to ta             | ke print           | of any            | y report       | in Ta             | ally?   |  |  |
| A.          | Ctrl+P                        | B.                 | Shift+P                   | C.                 | Alt-              | + <b>P</b>     | D.                | Alt+Ctrl+P  |  |  |
| 14.<br>Exc  | Which shorte<br>celspreadshee | cut key<br>t or in | is used to exany other co | kport da<br>ompany | ta of a           | ny comp        | any               | in Microsoft  |  |  |
| A.          | Alt+P                         | В.                 | Alt+E                     | C.                 | Alt               | Ю              | D.                | Alt+S   |  |  |
| 15.         | Which short                   | cut key            | is used for               | Select C           | ompa              | ny in Tal      | lly?              |   |  |  |
| A.          | F1 B.                         | Alt+               |                           | F3                 | D.                | Alt+F          |                   |   |  |  |
| 16.         | Which shorte                  | ut key             | is used to sh             | ut open            | ed con            | npany in       | Tall              | y?  |  |  |
| A.          | F1 B.                         | Alt+               | F1 C.                     | F3                 | D.                | Alt+F          | 3                 |   |  |  |
| 17.         | Which shorte                  | ut key             | is used to ch             | ange cu            | rrent             | period in      | ı Tal             | ly?   |  |  |
| A.          | F2 B.                         | Alt+               | F2 C.                     | F3                 | D.                | Alt+F          | 3                 |   |  |  |
| 18.<br>than | Which option<br>n onecompani  | is used            | to move fro               | om one o           | compa             | ny to and      | other             | when more   |  |  |
| A.          | Company In                    | nfo.               |                           | В.                 | Shut              | Compan         | y                 |   |  |  |
| C.          | Select Com                    | pany               |                           | D.                 | Com               | pany           |                   |   |  |  |
| 19. \       | Which Shortc                  | ut key             | is pressed to             | create :           | a new             | company        | y in T            | Γally?  |  |  |
| A.          | F3                            | В.                 | Alt+F3                    | C.                 | F2                |                | D.                | Alt+F2  |  |  |

20. Which Shortcut key is pressed to view features in Tally?

| A.            | F10                      | B.           | F11            | C.      | Alt+11             | D.                 | F12                   |
|---------------|--------------------------|--------------|----------------|---------|--------------------|--------------------|-----------------------|
| 21. W         | hich shortcut            | key is       | used to view   | config  | ure in Tally?      |                    |                       |
| A.            | F10                      | B.           | F11            | C.      | F12                | D.                 | Alt+F9                |
| 22. W         | hich menu is             | used t       | o create new   | ledger  | s, groups and      | vouch              | er types in Tally?    |
| A.            | Reports                  | B.           | Import         | C.      | Transactions       | D.                 | Masters               |
| 23. W         | hich subment             | ı is use     | ed to create n | ew ledg | gers, groups a     | nd vou             | icher types in Tally? |
| A.            | Account Info             | ).           |                | В.      | Inventory In       | fo.                |                       |
| C.            | Accounting '             | Vouche       | ers            | D.      | Inventory Vo       | ouchers            |                       |
| 24. W         |                          | y types      | s ledger, grou | ip and  | voucher type       | s can b            | e created in          |
| A. 2<br>25. V | B.<br><b>Which subme</b> | 3<br>nu is u |                |         | D.<br>ry in Tally? | 5                  |                       |
|               | Vouchers<br>Accounts Inf | fo.          |                |         |                    | ınt Vou<br>of thes |                       |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



| Name of the Student: Kee  | thiga. A.            | Year/Sem: DMBB  |
|---|----------------------|---|
| AU Register Number: 8 12  | 1763108              | 12  |
|   |                      | erial Accounting Using Tally"   |
| MCO OUR   | STIONS               | (25X4 = 100  Marks)   |
| 1. Tally package is developed by A. Peutronics B. Tally Solutions C. Coral Softwares D. Vedika Softwares 2. How many type of companies A. 2 B. 3 C. 3. Which menu appears after sta | s can be cre<br>4 D. | 5 IG Valley, Madurai Main Road  |
| <ul><li>A. Gateway of Tally</li><li>C. Display</li><li>4. Which shortcut key is pressed Gateway of Tally?</li></ul>   | Cor<br>D. Nor        | mpany Info ne of these  |
| A. Alt+F4 B. Alt+f2  5. Which key is pressed to go to GA. Ctrl B. Alt  6. Which option is used in Tally to  | Gateway of           | Alt+F1 D Alt+F3  CTally from company Info. Menu?  Esc D. Enter  anges in created company? |
| A. Select Company   | B. Shut              | Company   |
|   |                      | e of these  |
| 7. Which option from Company I Company in Tally?  | Info. menu           |   |
| A. Company Create C. Create   | 8.                   | Create Company  |
|   | D.<br>Company I      | New Company  Info Menu to divide company data   |
| intotwo financial years?  A. Change Tally Vault   |                      |   |
| Split Company Data  | B.                   | Alter   |
|   | D.                   | New Company   |
| 9. Which option is used to copy co  | mpany's d            | ata into pen drive or CD?   |

B.

D.

Restore

Copy Data

Backup

Split Company Data

C.



|           | S 70                           | App                  | roved by           | y AICTE | NewDel            | hi & Af            | filiated to An | ina U | niversity, Chennai  |
|-----------|--------------------------------|----------------------|--------------------|---------|-------------------|--------------------|----------------|-------|---|
| 1(<br>pl  | ). Which optic<br>acein Tally? | n is us              | ed to p            | lace d  | ata tak           | en in <sub>l</sub> | pen drive o    | or Cl | ) to Appropriate  |
| A         | . Backup                       |                      |                    |         | <b>E</b> .)       | Re                 | estore         |       |   |
| C.        | Split Con                      | npany D              | ata                |         | D.                | No                 | one of these   | •     |   |
| 11        | . Which optio                  | n is use             | ed to o            | pen co  | mpany             | creat              | ed in Tally    | ?     | (D:   |
| A.        | Create Co                      | mpany                |                    |         | B.                | Al                 | ter            |       | Dr. G. Balakrishnan, M.E., Ph.D.,                           |
| 0         | Select Con                     | mpany                |                    |         | D.                | Sh                 | ut Company     | y     | Principal Indra Ganesan College of Engineering              |
| 12        | . Which optio                  | n is use             | d in T             | ally to | close o           | pened              | Company        | ?     | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| A.        | Alter                          |                      |                    |         | <b>B</b> )        | Sh                 | at Company     | y     |   |
| C.        | Create Co                      | mpany                |                    |         | D.                | Sel                | ect Compar     | ny    |   |
| 13.       | Which shorte                   | ut key i             | is used            | to tak  | e print           | of an              | y report in    | Tal   | ly?   |
| A.        | Ctrl+P                         | <b>B</b>             | Shif               | t+P     | C.                | Alt                | +P [           | Э.    | Alt+Ctrl+P  |
| 14.<br>Ex | Which shorte<br>celspreadshee  | cut key<br>t or in a | is used<br>any oth | to exp  | oort da<br>npany? | ta of a            | ny compai      | ny in | Microsoft   |
| A.        | Alt+P                          | B                    | Alt+               | E       | C.                | Alt-               | O D            | ).    | Alt+S   |
| 15.       | Which short                    | cut key              | is used            | l for S | elect C           | ompa               | ny in Tally    | ?     |   |
| A.        | F1 B.<br>Which shorte          | Alt+                 | F1                 | 0       | F3                | n                  | A 1+1E2        |       | ?   |
| A.        |                                | Alt+l                |                    |         |                   |                    |                |       |   |
| 17.       | Which shorte                   |                      |                    |         |                   |                    |                | fally | ?   |
|           | F2 <b>B</b> .                  |                      |                    |         |                   |                    |                | •     |   |
| 18.       | Which option onecompanie       | is used              | to mov             |         |                   |                    |                | ier w | when more   |
| A.        | Company Ir                     | nfo.                 |                    |         | <b>B</b> )        | Shut               | Company        |       |   |
| C.        | Select Comp                    | oany                 |                    |         | D.                | Com                | panv           |       |   |

19. Which Shortcut key is pressed to create a new company in Tally?

C.

F2

D.

Alt+F2

Alt+F3

A.

F3



| 20.            | Which Shor               | tcut ke        | y is presse      | d to view i              | eatures in T      | ally?               |               |          |
|----------------|--------------------------|----------------|------------------|--------------------------|-------------------|---------------------|---------------|----------|
| A.             | F10                      | 0              | F11              | C.                       |                   | D.                  | F12           |          |
| 21.            | Which shorte             | cut key        | is used to       | view confi               | gure in Tall      | y?                  |               |          |
| A.             | F10                      | B.             | F11              | (C)                      | F12               | D.                  | Alt+F9        |          |
| 22.            | Which menu               | is used        | to create        | new ledge                | rs, groups a      |                     | her types in  | Tally?   |
| A.             | Reports                  | В.             | Import           | <b>©</b>                 | Transaction       |                     | Masters       | rany.    |
| 23. W          | hich subme               | nu is us       | ed to crea       | te new led               |                   |                     | ucher types i | - T-II-0 |
| (A.)           | Account In               | fo.            |                  | В.                       |                   |                     | ucher types i | и тану?  |
|                |                          |                |                  | Б.                       | Inventory In      | nfo.                |               |          |
| C.             | Accounting               | Vouche         | ers              | D.                       | Inventory V       | ouchers             |               |          |
| 24. W          | ith how man?             | ly types       | ledger, g        | roup and v               |                   |                     |               |          |
| 70) 2<br>25. V | B.<br>Vhich subme        | 3<br>enu is us | C.<br>sed for vo | 4<br>a <b>cher ent</b> r | D.<br>y in Tally? | 5                   |               |          |
| A.             | Vouchers<br>Accounts Inf |                |                  | (                        | Accou             | mt Vouc<br>of these | chers         |          |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



| I          | Name of the Student : G                             | eath    | 2. A      | · (DOL)               | Voor/Some TR no on                             |
|------------|---|---------|-----------|-----------------------|--|
| A          | U Register Number: 211                              | 2176    | 310       | 17                    | Year/Sem: IPMBP                                |
|            | Value Added Cours                                   | e on "N | /lana     | gerial Accounting     | Using Tally"                                   |
|            | MCO O   | UEST    | ONS       | S (25X4 = 100 Mar     | ks)  |
| 1.<br>A.   | Tally package is developed                          |         |           |                       |  |
| ₿          |   |         |           |                       | 10   |
| Č.         | Coral Softwares                                     |         |           |                       | Dr. G. Ralalanial                              |
| D.         | Vedika Softwares                                    |         |           |                       | Dr. G. Balakrishnan, M.E., Ph.D.,              |
| 2.         | How many type of compan                             | ies can | he ev     | noted in Table        | Principal Indra Ganesan College of Engineering |
| <i>Y</i>   | 4 D, 3 C,   | 4       | D         | 5                     | Tuney, Madural Main Dand                       |
| 3.         | Which menu appears after                            | startin | g Tal     | ly for the first time | Manikandam, Trichy-620 012.                    |
| A.         | Gateway of Tally                                    | B       | 7         | mpany Info            |  |
| C.         | Display   | D.      |           |                       |  |
| 4. X       | - ·   |         | TAO       | ne of these           |  |
| Gat        | Which shortcut key is press<br>teway of Tally?      | ed to g | o to c    | ompany Info. Menu     | from   |
|            | A 2   |         |           |                       |  |
| A.         | Alt+F4 B. Alt+                                      | f2      | C.        | Alt+F1                | Alt+F3   |
| 3. Y       | Which key is pressed to go t Ctrl B. Alt            | o Gatev | vay o     | f Tally from compa    | ny Info. Menu?                                 |
| 6 V        | Ctrl B. Alt   |         | 0         | Esc D.                | Enter  |
| v.         | hich option is used in Tall                         | y to ma | ke ch     | anges in created co   | mpany?   |
| A.         | Select Company                                      | ₿       |           | Company               | •  |
| C.         | Alter   | D.      | Non       | e of these            |  |
| 7. W       | hich option from Company                            | V Info  | menn      | is salasted to        |  |
| Com        | T . D and with 3 is                                 |         | ar Car Ca | 12 selected to cleaf  | e a new  |
| A.<br>C.   | Company Create                                      |         | 0         | Create Company        |  |
|            | Create  |         | D.        | New Company           |  |
| 8. Wi      | hich option is selected from<br>wo financial years? | Сотр    | any I     | nfo Menu to divide    | company data                                   |
| A.         | Change Tally Vault                                  |         | B.        | Alter                 |  |
| C          | Split Company Data                                  |         | D.        | New Company           |  |
| 9. Wh      | ich option is used to copy o                        | ompan   | y's da    | ata into pen drive o  | r CD?  |
| <b>(C)</b> | Backup  |         | 3.        | Restore               | •  |

D.

Copy Data

C.

Split Company Data

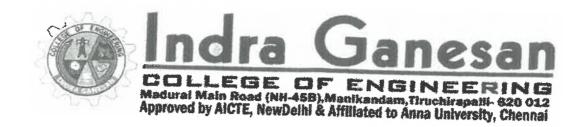


| 10.<br>plac | Whic<br>cein T | h option ally? | is used to | place d | lata 1 | taken | in pen | drive or | CD to | Appropria | te |
|-------------|----------------|----------------|------------|---------|--------|-------|--------|----------|-------|-----------|----|
|             | 75             | 4              |            |         |        | _ /   |        |          |       |           |    |

| A         | . Backup                    |                        |                         | (8)                  | R        | lestore          |              |   |
|-----------|-----------------------------|------------------------|-------------------------|----------------------|----------|------------------|--------------|---|
| C         | . Split Co                  | mpany I                | Data                    | D.                   | . N      | one of t         | hese         |   |
| 1 1       | l. Which opt                | ion is us              | ed to open              | company              | y crea   | ted in T         | ally?        | (D:-  |
| - A       | . Create C                  | Company                |                         | <b>(B)</b>           | A        | lter             |              | Dr. G. Balakrishnan, M.E., Ph.D.,                           |
| C.        | Select C                    | ompany                 |                         | D.                   | Sł       | nut Com          | pany         | Principal Indra Ganesan College of Engineering              |
| 12        | . Which opti                | on is use              | ed in Tally             | to close             | opene    | d Comp           | any?         | IG Valley, Madurai Main Road<br>Manikandam, Trichy-620 012. |
| A.        | Alter                       |                        |                         | <b>(3)</b>           | Sh       | ut Com           | pany         |   |
| C.        | Create C                    | ompany                 |                         | D.                   | Se       | lect Con         | npany        |   |
| 13.       | Which short                 | cut key                | is used to              | take prin            | t of an  | ıy repor         | t in T       | ally?   |
| A.        | Ctrl+P                      | B.                     | Shift+P                 | C                    | Alt      | ;+ <b>P</b>      | D.           | Alt+Ctrl+P  |
| 14.<br>Ex | Which short<br>celspreadshe | tcut key<br>et or in : | is used to<br>any other | export da<br>company | ata of : | any con          | ıpany        | in Microsoft  |
| A.        | Alt+P                       | <b>B</b>               | Alt+E                   | C.                   | Alt      | +O               | D.           | Alt+S   |
| 15.       | Which shor                  | tcut key               | is used for             | r Select C           | Compa    | ny in T          | ally?        |   |
| A.<br>16. | F1 <b>B</b><br>Which short  | Alt+                   |                         |                      | D.       | Alt+:<br>npany i | F3<br>n Tall | v?  |
| A.        | F1 <b>B</b>                 | Alt+                   |                         |                      | D.       | Alt+]            |              | •   |
| 17.       | Which shorte                | cut key i              | s used to c             | hange cu             | rrent    | period i         | n Tal        | ly?   |
|           | F2 <b>B</b>                 |                        |                         |                      | D.       | Alt+I            |              | •   |
| 18. Y     | Which option<br>onecompan   | is used<br>ies are o   | to move fi<br>pen?      | rom one c            | ompa     | ny to an         | other        | when more   |
| A.        | Company I                   | nfo.                   |                         | <b>6</b> )           | Shut     | Compa            | ny           |   |
| C.        | Select Com                  | ipany                  |                         | D.                   | Com      | pany             |              |   |
| 19. V     | Vhich Shorte                | ut key is              | s pressed t             | o create a           | new (    | compan           | y in T       | ally?   |
| A.        | F3                          | B.                     | Alt+F3                  | <b>©</b>             | F2       |                  | D.           | Alt+F2  |

| 20.               | Which Short             | cut key  | is pressed        | to view fe | atures in '       | Tally?    |                 |          |
|-------------------|-------------------------|----------|-------------------|------------|-------------------|-----------|-----------------|----------|
| A.                | F10                     | <b>B</b> | F11               | C.         | Alt+11            | D.        | F12             |          |
| 21.`              | Which shorte            | ut key i | is used to vi     | iew config | ure in Ta         | lly?      |                 |          |
| A.                | F10                     | B.       | F11               | 9          | F12               | D.        | Alt+F9          |          |
| 22.               | Which menu              | is used  | to create n       | ew ledger  | s, groups         | and vouc  | her types in T  | ally?    |
| A.                | Reports                 | B.       | Import            | O.         | Transacti         | ions D.   | Masters         |          |
| 23.               | Which subme             | nu is us | sed to creat      | e new led  | gers, grou        | ps and vo | oucher types in | ı Tally? |
|                   | Account In              | fo.      |                   | В.         | Inventory         | Info.     |                 |          |
| C.                | Accounting              | g Vouch  | iers              | D.         | Inventory         | Voucher   | 'S              |          |
| 24.<br><b>Tal</b> | With how ma<br>ly?      | ny type  | es ledger, g      | roup and   | voucher t         | ypes can  | be created in   |          |
|                   | 2 B.<br>Which subm      |          | C.<br>used for vo |            | D.<br>ry in Tally | 5<br>y?   |                 |          |
|                   | Vouchers<br>Accounts In | nfo.     |                   |            |                   | ecount Vo |                 |          |

Dr. G. Balakrishman, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



| Na                     | ame of the Student : Us  | ha.A     | ς .                | 20/  | Year/Sem:   |
|------------------------|--|----------|--------------------|--|---|
| Al                     | ame of the Student : $V_S$   | 2176     | 31053              | []->   |   |
|                        | Value Added Course   |          |                    |  | g Using Tally"  |
|                        |  |          |                    | 25X4 = 100 Ma                                | •   |
| A.<br>C.<br>D.<br>2. H | Fally package is developed Peutronics Tally Solutions Coral Softwares Vedika Softwares Low many type of compani 2 B. 3 C. Which menu appears after | es can l | D.                 | 5  | Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. |
| A.<br>C.<br>4. W       | Gateway of Tally Display  /hich shortcut key is presseeway of Tally?   | B<br>D.  | Con<br>Non         | npany Info<br>e of these                     |   |
| A.<br>5. W<br>A.       |  | Gatew    | ay of              | Hec D  | Tombon .  |
| A.<br><b>7.</b> WI     | Select Company Alter hich option from Company pany in Tally?   | B.<br>D. | Shut None          | Company<br>of these                          |   |
| A.<br>C.<br>8. Wh      | Company Create Create iich option is selected from   |          | B)<br>D.<br>any In | Create Company New Company Ifo Menu to divid | e company data  |
| A.                     | vo financial years? Change Tally Vault Split Company Data  | 3        | <b>6</b> .)        | Alter New Company                            | <b>F</b> ,  |
| 9. Wh                  | ich option is used to copy o   | ompan    | y's da             | ta into pen drive                            | or CD?  |

B.

D.

Restore

Copy Data

Backup

Split Company Data

C.

|              | 7 No.                          | Appro          | ved by A     | ICTE, N     | ewDelhi       | & Affili                    | ated to      | Anna U  | niversity, Chennai                   |  |  |  |  |
|--------------|--------------------------------|----------------|--------------|-------------|---------------|-----------------------------|--------------|---------|--------------------------------------|--|--|--|--|
|              | Which option ein Tally?        | is used        | to pla       | ce dat      | a taken       | in pe                       | n drive      | or Cl   | D to Appropriate                     |  |  |  |  |
| A.           | Backup                         |                |              |             | <b>B</b>      | Rest                        | ore          |         |                                      |  |  |  |  |
| C.           | Split Comp                     | any Dat        | a            |             | D.            | Non                         | e of the     | ese     |                                      |  |  |  |  |
| 11.          | Which option                   | is used        | to ope       | n com       | pany c        | reated                      | l in Tal     | lly?    |                                      |  |  |  |  |
| A.           | Create Com                     | Create Company |              |             |               |                             | r            |         | (B:                                  |  |  |  |  |
| 0            | Select Com                     | Select Company |              |             |               | Shut Company                |              |         | Dr. G. Balakrishnan, M.E., Ph.D.,    |  |  |  |  |
| 12. <b>V</b> | Which option                   | is used        | in Tal       | ly to c     | lose op       | ened (                      | Compa        | ny?     | Indra Ganesan College of Engineering |  |  |  |  |
| A.           | Alter                          | <b>B</b> )     | Shut Company |             |               | Manikandam, Trichy-620 012. |              |         |                                      |  |  |  |  |
| C.           | Create Com                     | Create Company |              |             |               |                             | ct Com       |         |                                      |  |  |  |  |
| 13. V        | Vhich shortcu                  | t key is       | used t       | to take     | print         | of any                      | report       | in Ta   | lly?                                 |  |  |  |  |
| A.           | Ctrl+P                         | <b>B</b>       | Shift-       | +P          | C.            | Alt+                        | P            | D.      | Alt+Ctrl+P                           |  |  |  |  |
|              | Which shorter<br>Elspreadsheet |                |              |             |               |                             | ny com       | pany i  | in Microsoft                         |  |  |  |  |
| A.           | Alt+P                          | 0              | Alt+I        | Ξ           | C.            | Alt+                        | 0            | D.      | Alt+S                                |  |  |  |  |
| 15.          | Which shorte                   | ut key i       | is used      | for Se      | elect Co      | mpan                        | y in Ta      | ally?   |                                      |  |  |  |  |
| A.<br>16. V  | F1 B.<br><b>Vhich shortc</b> u | Alt+F          |              | to shu      | F3<br>t opene | D.                          | Alt+l        |         | y?                                   |  |  |  |  |
| A.           | F1 B.                          | Alt+F          | 1            | <u>(C.)</u> | F3            | D.                          | Alt+l        | F3      |                                      |  |  |  |  |
| 17. V        | Vhich shorteu                  | ıt key is      | used         | to cha      | nge cui       | rent p                      | period i     | in Tall | ly?                                  |  |  |  |  |
| A.           | F2 <b>B</b>                    | Alt+F          | 2            | C.          | F3            | D.                          | Alt+I        | F3      |                                      |  |  |  |  |
| 18. V        | Vhich option in one companie   | is used        | to mov       |             |               |                             |              |         | when more                            |  |  |  |  |
| A.           | Company In                     | Company Info.  |              |             |               |                             | Shut Company |         |                                      |  |  |  |  |
| C.           | Select Comr                    | Select Company |              |             |               |                             | Company      |         |                                      |  |  |  |  |

A. F3 (B.) Alt+F3 C. F2 D. Alt+F2

19. Which Shortcut key is pressed to create a new company in Tally?



|   | 20.  | Which Short       | tcut ke       | y is presse      | d to view f     | eatur              | es in Tal   | lly?   |            |  |  |  |  |  |
|---|--|-------------------|---------------|------------------|-----------------|--------------------|-------------|--------|------------|--|--|--|--|--|
| £   | Α.   | F10               | B.            | F11              | 0               | Alı                | +11         | D.     | F12        |  |  |  |  |  |
|   | 21.  | Which shorte      | ut key        | is used to       | view confi      | gure :             | in Tally?   | •      |            |  |  |  |  |  |
|   | A.   | F10               | В.            | F11              | 0               | F12                | 2           | D.     | Alt+F9     |  |  |  |  |  |
|   | 22. Which menu is used to create new ledgers, groups and voucher types in Tally? |                   |               |                  |                 |                    |             |        |            |  |  |  |  |  |
|   | A.   | Reports           |               |                  | C.              |                    |             |        | Masters    |  |  |  |  |  |
| 23. Which submenu is used to create new ledgers, groups and voucher types in Tally? |  |                   |               |                  |                 |                    |             |        |            |  |  |  |  |  |
| (   | 9  | Account Inf       |               |                  | B.              |                    | ntory Inf   |        | <b>.</b>   |  |  |  |  |  |
| (   | C.   | Accounting        | Vouch         | ers              | D.              | Inventory Vouchers |             |        |            |  |  |  |  |  |
| 2   | 4. V<br>Γally  | Vith how mar      | y type:       | s ledger, g      | roup and s      | vouch              | er types    | can be | created in |  |  |  |  |  |
|   | 9 2<br>5.  | B.<br>Which subme | 3<br>enu is u | C.<br>sed for vo | 4<br>ucher entr | D.<br>y in 1       | ;<br>Fally? | 5      |            |  |  |  |  |  |
| A   |  | Vouchers          |               |                  |                 | В.                 | Accoun      | t Vouc | hers       |  |  |  |  |  |

D.

Accounts Info.

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

None of these



# Value Added Course on "Managerial Accounting Using Tally"

## ANSWER KEY

| 1 | В | 6  | C | 11 | C | 16 | В | 21 | C |
|---|---|----|---|----|---|----|---|----|---|
| 2 | A | 7  | В | 12 | В | 17 | В | 22 | D |
| 3 | В | 8  | C | 13 | С | 18 | В | 23 | A |
| 4 | D | 9  | A | 14 | В | 19 | В | 24 | A |
| 5 | C | 10 | В | 15 | C | 20 | В | 25 | В |

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal