

Deviyakurichi- 636 112, Thalaivasal-TK, Salem.

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Academic year	Name of the Department	No. of add on/certificate courses offered	Name of Add on /Certificate programs Offered	No. of students enrolled	No. of students completed	Page No.
2022 - 2023	Civil	2	CSI SAP2000	11	11	1-5
			AUTODISK CIVIL 3D	11	11	6-8
	CSE	2	ROBOTICS AND AUTOMATION	252	252	9-11
			MACHINE LEARNING USING PYTHON	252	252	12-13
	ECE	2	ARTIFICIAL INTELLIGENCE	62	62	14-16
			ELECTRIC VEHICLE DESIGN	62	62	17-19
	EEE	2	WEARABLE TECHNOLOGY	187	187	20-22
			PCB DESIGNING	187	187	23-26
	S&H	2	COMMUNICATION ENGLISH	274	274	27-28
			FUNDAMENTALS OF MATHEMATICS	274	274	29-30
Total certificate courses offered in the academic year 2022-2023		10	Total No. of Students Enrolled in the Certificate Program	786	786	

### **TABLE OF CONTENTS- VAC QP**

#### **Department of Civil Engineering**

#### Value added Course on "CSI SAP2000"

#### Assessment questions

- 1. \*Question:\* In CSI SAP2000, what does the acronym "CSI" stand for?
  - a) Computer System Integration
  - b) Civil Structural Innovations
  - c) Computers and Structures, Inc.
  - d) Constructive Structural Integrity
  - \*Answer:\* c) Computers and Structures, Inc.
- 2. \*Question:\* Which category of structures is SAP2000 primarily designed for?
  - a) Mechanical Structures
  - b) Architectural Structures
  - c) Civil Structures
  - d) Electrical Structures
  - \*Answer:\* c) Civil Structures
- 3. \*Question:\* What is the main purpose of the SAP2000 software?
  - a) 3D Animation
  - b) Structural Analysis and Design
  - c) Graphic Design
  - d) Project Management
  - \*Answer:\* b) Structural Analysis and Design
- 4. \*Question:\* In SAP2000, what does the term "FEA" stand for?
  - a) Finite Element Analysis
  - b) Force Elasticity Analysis
  - c) Foundation Engineering Assessment
  - d) Formwork Execution Algorithm

\*Answer:\* a) Finite Element Analysis

Dr.R.PUNIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).

5. \*Question:\* Which analysis type in SAP2000 is used for linear static analysis?

- a) Dynamic Analysis

- b) Time History Analysis

- c) Nonlinear Static Analysis
- d) Static Analysis

\*Answer:\* d) Static Analysis

- 6. \*Question:\* What does the acronym "GUI" stand for in the context of SAP2000?
  - a) Graphic User Interface
  - b) General Usage Instructions
  - c) Geotechnical Underlying Integration
  - d) Grouped Unit Indicators

\*Answer:\* a) Graphic User Interface

- 7. \*Question:\* Which file extension is commonly used for SAP2000 model files?
  - a) .CAD
  - b) .SAP
  - c) .SDB
  - d) .STA

- 8. \*Question:\* What is the purpose of the SAP2000 feature called "Mesh Generation"?
  - a) Creating 3D models
  - b) Defining material properties
  - c) Generating finite element meshes
  - d) Performing time history analysis

\*Answer:\* c) Generating finite element meshes

- 9. \*Question:\* Which load case considers the effects of dead loads only in SAP2000?
  - a) Live Load Case
  - b) Static Load Case
  - c) Dead Load Case
  - d) Dynamic Load Case

\*Answer:\* c) Dead Load Case

Dr.R.PUNIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).

<sup>\*</sup>Answer:\* c) .SDB

10. \*Question:\* In SAP2000, what does the term "P-Delta effect" refer to?

- a) Dynamic analysis
- b) Geotechnical analysis
- c) Nonlinear geometric effects
- d) Seismic analysis

\*Answer:\* c) Nonlinear geometric effects

11. \*Question:\* What does the SAP2000 feature "Response Spectrum Analysis" primarily assess?

- a) Structural damping
- b) Seismic response
- c) Wind effects
- d) Temperature variations

\*Answer:\* b) Seismic response

12. \*Question:\* Which analysis type in SAP2000 considers the effects of time-varying loads?

- a) Static Analysis
- b) Modal Analysis
- c) Time History Analysis
- d) Linear Buckling Analysis

\*Answer:\* c) Time History Analysis

13. \*Question:\* Which menu in SAP2000 is used for defining and assigning section properties?

- a) Model
- b) Define
- c) Assign
- d) Section

\*Answer:\* d) Section

A.M.E., Ph. D.,

PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICHI - 636 112, THALAIVASAL'(TK), SALEM (DT).

- 14. \*Question:\* In SAP2000, what does the term "Joint Constraints" refer to?
  - a) Restrictions on member lengths

- b) Connection details between members
- c) Constraints applied to joints
- d) Joint loadings
- \*Answer:\* c) Constraints applied to joints
- 15. \*Question:\* What does the "Load Combinations" feature in SAP2000 help determine?
  - a) Structural analysis results
  - b) Optimal material usage
  - c) Load distribution
  - d) Foundation design

\*Answer:\* a) Structural analysis results

16. \*Question:\* Which analysis type is used to investigate the stability of a structure in SAP2000?

- a) Modal Analysis
- b) Linear Buckling Analysis
- c) Response Spectrum Analysis
- d) Static Pushover Analysis

\*Answer:\* b) Linear Buckling Analysis

17. \*Question:\* What is the primary purpose of the "Time-Dependent Material" feature in SAP2000?

- a) Defining nonlinear materials
- b) Accounting for material aging effects
- c) Incorporating creep and shrinkage
- d) Analyzing time-varying loads

\*Answer:\* c) Incorporating creep and shrinkage

18. \*Question:\* Which option in SAP2000 allows the user to specify the analysis type (e.g., linear, nonlinear)?

- a) Analysis Settings
- b) Model Preferences
- c) Section Options
- d) Load Cases

Dr.R. PUNIDHA.M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICHI - 636 112, THALAIVASAL'(TK), SALEM (DT). \*Answer:\* a) Analysis Settings

19. \*Question:\* What does the term "Pushover Analysis" refer to in SAP2000?

- a) Linear elastic analysis
- b) Progressive collapse analysis
- c) Dynamic analysis
- d) Geotechnical analysis

\*Answer:\* b) Progressive collapse analysis

20. \*Question:\* Which analysis type is suitable for investigating the dynamic response of a structure subjected to earthquake loads?

- a) Static Analysis

- b) Modal Analysis
- c) Time History Analysis
- d) Linear Buckling Analysis

\*Answer:\* c) Time History Analysis

Dr.R. PUNIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).

### Department of Civil Engineering Value added Course on "AUTO DISK CIVIL 3D" <u>Assessment questions</u>

- 1. What is the primary purpose of Autodesk Civil 3D?
  - a. 3D modeling
  - b. Architectural design
  - c. Civil engineering design
  - d. Animation
  - \*Answer: c. Civil engineering design\*
- 2. Which file format is commonly used for saving Autodesk Civil 3D drawings?
  - a. .dwg
  - b. .pdf
  - c. .png
  - d. .xlsx
  - \*Answer: a. .dwg\*
- 3. In Civil 3D, what does the term "alignment" refer to?
  - a. Arrangement of objects
  - b. Horizontal and vertical layout of elements
  - c. 3D rendering settings
  - d. File organization
  - \*Answer: b. Horizontal and vertical layout of elements\*
- 4. What is the purpose of a profile in Autodesk Civil 3D?
  - a. 3D visualization
  - b. Project timeline
  - c. Representing terrain contours
  - d. Displaying surface elevations along an alignment
  - \*Answer: d. Displaying surface elevations along an alignment\*
- 5. Which tool is used for creating surfaces based on existing terrain in Civil 3D?
  - a. Slope Analysis
  - b. Surface Creation
  - c. Contour Design
  - d. Earthwork Calculation
  - \*Answer: b. Surface Creation\*

Dr.R. PUNIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICHI - 636 112, THALAIVASAL'(TK), SALEM (DT). 6. In Civil 3D, what does the term "corridor" refer to?

- a. Road intersection
- b. Design pathway
- c. Software interface
- d. Project folder
- \*Answer: b. Design pathway\*
- 7. What is the purpose of the "assembly" in Autodesk Civil 3D?
  - a. 3D modeling tool
  - b. Component grouping for corridor design
  - c. Project collaboration feature
  - d. File organization structure
  - \*Answer: b. Component grouping for corridor design\*
- 8. Which tab in Civil 3D is commonly used for managing and analyzing surfaces?
  - a. Home
  - b. Analyze
  - c. Surface
  - d. View
  - \*Answer: c. Surface\*
- 9. What does the term "parcel" mean in Autodesk Civil 3D?
  - a. Unit of land
  - b. 3D modeling component
  - c. Surface elevation point
  - d. Corridor pathway
  - \*Answer: a. Unit of land\*
- 10. Which tool is used for creating cross-sections in Civil 3D?
  - a. Section Analysis
  - b. Cross-Profile Design
  - c. Cross-Section Editor
  - d. Elevation Viewer
  - \*Answer: c. Cross-Section Editor\*

MAME.Ph.D.

11. In Civil 3D, what is the purpose of the "Grading" tool?

- a. Roadway design

PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICHI - 636 112 THALAIVASAL'(TK), SALEM (UT).

- b. Surface analysis
- c. Earthwork calculations
- d. 3D rendering
- \*Answer: c. Earthwork calculations\*
- 12. What is the function of the "Label" tool in Autodesk Civil 3D?
  - a. Apply textures to surfaces
  - b. Add annotations to objects
  - c. Create 3D models
  - d. Adjust lighting settings
  - \*Answer: b. Add annotations to objects\*
- 13. Which command is used for creating a new alignment in Civil 3D?
  - a. NewAlign
  - b. CreateAlignment
  - c. AlignDesign
  - d. AddAlignment
  - \*Answer: b. CreateAlignment\*
- 14. How is the design profile related to the alignment in Civil 3D?
  - a. It defines the 3D path of the alignment
  - b. It represents the alignment's color scheme
  - c. It organizes the alignment files
  - d. It controls the alignment's transparency
  - \*Answer: a. It defines the 3D path of the alignment\*
- 15. Which Civil 3D tool is used for creating a pipe network?
  - a. Pipe Editor
  - b. Pipe Design
  - c. Pipe Network
  - d. Pipe Builder
  - \*Answer: c. Pipe Network\*

Dr.R. PUNIDHA, M.E., Pr. D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).

Page 8 of 30

Deviyakurichi - 636 112, Thalaivasal-Tk, Salem - 636112.

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### ASSESEMENT QUESTIONS

1. The laws of Robotics are:

a) A robot may not injure a human being

b) A robot must abbey the order given by human except when conflict with the first law

c) A robot must protect its own existence except when it is violating first and second law

d) Both b and c

#### Answer:D

2.A \_\_\_\_\_\_ is connection between parts or links in a robot that allow motion.

- a) Hinge b) Joint
- c) Dis joint
- d) None of the mentioned

#### Answer:B

3. Classification of Robot is based on:

a) Geometry and geometric classification

- b) Left right classification
- c) Based on control system
- d) All of the mentioned

Dr.R.PUNIDHA,M.E.,Ph.D. PRINCIPAL BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICHI - 636 112, THALAIVASAL (TK), SALEM (DT).

#### Answer:D

4. Hierarchical level control involves :

a) Level 1: Actuator control controls individual robot actuators
b) Level 2: Path control coordinates robot path movement
c)Level 3: Main control high level instruction interpreter
d) All of the mentioned

#### Answer:D

- 5. Non servo robots are also called as:
  - a)Pick and place
  - b) Fixed stop robot
  - c) Both of the mentioned
  - d) None of the mentioned

#### Answer:C

6. Characteristics of non-servo robot are:

- a) Relatively inexpensive compared to servo robots
- b) Simple, understand and operate
- c) Precise and reliable
- d) Open loop system

#### Answer:D

7.Assertion (A): The control system of an industrial robot determine its flexibility and efficiency, within the limits set beforehand by the design of the mechanical structure.

Reason (R): The control system provides a logical sequence for the robot to follow.

a) Both A and R are true and R is not correct explanation of A.

b) Both A and R are true but R is not correct explanation of A.

c) A is true but R is false

d) A is false but R is true

Dr.R. PUNIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL (TK), SALEM (DT).

#### Answer:A

8. An automatic apparatus or device that performs functions ordinarily ascribed to humans or operate with what appears to be almost human intelligence is called

- a) Robot
- b) Human
- c) Animals
- d) Reptiles

#### Answer:A

9. The basic components of robot are:

a) The mechanical linkage

b) Sensors and controllers

c) User interface and power conversion unit

d) All of the mentioned

#### Answer:D

10. Assertion (A): Degree of freedom is defined as the number of variables to define motion in the body in space.

Reason (R): Maximum degree of freedom can be six in a robot.

a) Both A and R are true and R is not correct explanation of A.

b) Both A and R are true but R is not correct explanation of A.

c) A is true but R is false

d) A is false but R is true

Answer:B

Dr.R.PUNIDI h.D., PRINCIPAL HIYAR INSTITUTE OF BHARAT ENGINEERING FOR WOMEN, DEVIYANIE THA

Deviyakurichi - 636 112, Thalaivasal-Tk, Salem Dt.

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### ASSESEMENT ANSWER SHEET

#### STUDENT NAME:

#### **TOTAL MARKS:10**

#### **REGISTER NUMBER:**

DATE:

1. Among the following option identify the one which is not a type of learning

A).Semi unsupervised learning

B).Supervised learning

C).Reinforcement learning

D).Unsupervised learning

#### Answer:A

2. Identify the kind of learning algorithm for "facial identities for facial expressions".

A).Prediction

**B**).Recognition patterns

C).Recognizing anomalies

D).Generating patterns

#### Answer:B

3. What is the application of machine learning methods to a large database called?

- A).Big data computing
- B).Internet of things
- C).Data mining
- D).Artificial intelligence

#### Answer:C

4. Identify the type of learning in which labeled training data is used.

A).Semi unsupervised learning

- B). Supervised learning
- C). Reinforcement learning
- D).Unsupervised learning

Dr.R.P

BHARATHI

ENGINEERING FOR WOMEN,

DEVIYAKURICHI - 636 112, THALAIVASAL'(TK), SARage (12) of 30

#### Answer:B

5. Identify whether true or false: In PCA the number of input dimensions is equal to principal components.

M.E. Ph.D.

IUTE OF

A).True

#### B).False

#### Answer:A

6. Which of the following machine learning algorithm is based upon the idea of bagging?

A).Decision tree

B).Random-forest

C).Classification

D).Regression

#### Answer:B

7. Machine learning is a subset of which of the following.

A).Artificial intelligence

B). Deep learning

C).Data learning

D).None of the above

#### Answer:A

8. The father of machine learning is

A).Geoffrey Everest Hinton

B).Geoffrey Hill

C).Geoffrey Chaucer

D).None of the above

#### Answer:A

9. Which of the following are common classes of problems in machine learning?

A).Regression

**B**).Classification

- C).Clustering
- D).All of the above

#### Answer:D

10. Select the correct definition of neuro software.

A). It is software used by neurosurgeons

B).It is software used to analyze neurons

C).It is a powerful and easy neural network

D).None of the above

Answer:C

DRR E.AhD. BHARAT UTE OF ENGINEERING FOR WOMEN, DEVIYAKURICHI - 636 112, THALAIVASAL (TK), SALEM (DT),

Page 13 of 30



Deviyakurichi ,Thalaivasal -TK, Salem - 636112. (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) <u>DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING</u>

VALUE ADDED COURSE ON "ARTIFICIAL INTELLIGENCE" 18/01/2023 to 23/01/2023 ASSESSMENT QUESTIONS

NAME:

DATE:

**REGISTER NUMBER:** 

1. 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

2. Who is the inventor of Artificial Intelligence?

a) Geoffrey Hinton

b) Andrew Ng

c) John McCarthy

d) Jürgen Schmidhuber

3. 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

4. Which of the following is a component of Artificial Intelligence?

a) Learning

b) Training

c) Designing

d) Puzzling

5. 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

Dr.R.PU DHA.M.E..Ph.D.,

PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT), Page 14 of 30 d) Mapping of environment sequence to an action

6. What is the function of the system Student?

a) program that can read algebra word problems only

b) system which can solve algebra word problems but not read

c) system which can read and solve algebra word problems

d) None of the mentioned

7.\_\_\_\_\_ number of informed search method are there in Artificial Intelligence.

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

8. 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

9. Which of the following are the approaches to Artificial Intelligence?

a) Applied approach

b) Strong approach

c) Weak approach

d) All of the mentioned

10. Artificial Intelligence has evolved extremely in all the fields except for

a) Web mining

b) Construction of plans in real time dynamic systems

c) Understanding natural language robustly

d) All of the mentioned

NIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAWASAL (TK), SALEM (DT).



Deviyakurichi ,Thalaivasal -TK, Salem - 636112. (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) <u>DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING</u>

VALUE ADDED COURSE ON "ARTIFICIAL INTELLIGENCE" 18/01/2023 to 23/01/2023

#### ASSESSMENT ANSWER

1.C
2. C
3. B
4.A
5. C
6. C
7.A
8.C
9.D
10.D

Dr.R.PUNIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).



Deviyakurichi ,Thalaivasal -TK, Salem - 636112. (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) <u>DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING</u>

#### VALUE ADDED COURSE ON "ELECTRIC VEHICLE DESIGN" 17/07/2023 to 21/07/2023 ASSESSMENT QUESTIONS

NAME:

DATE:

#### **REGISTER NUMBER:**

- 1. Where do you plug in a charger on an EV in order to charge the battery?
  - a) Gas Cap
  - b) Charging Station
  - c) Charging Hub
  - d) Charging Port
- 2. This size battery pack might be found in a typical BEV:
  - a) 75 kWh
  - b) 90 Wh
  - c) 300 kWh
  - d) 300 Wh

3. The average estimated range per hour added by a level 1 charger:

- a) 4 miles
- b) 25 miles
- c) 50 miles
- d) 200 miles

4. \_\_\_\_\_ can help improve the range of an EV in cold and hot weather.

- a) Accelerating quickly
- b) Slamming on the brakes
- c) Listening to music
- d) Preconditioning the interior
- 5. In most EVs, this allows for a smoother ride from zero to top speed:
  - a) Multiple Motors
  - b) Single Speed Transmission
  - c) Air
  - d) Regenerative Braking

IDHA.M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL (TK), SALEM (DT).

Page 17 of 30

6. Home charging allows an EV owner to:

.1.4

- a) Charge for free
- b) Avoid traffic
- c) Leave home each morning with a full "tank"
- 7. It's projected that the average EV will have \_\_\_\_\_ miles of range by 2022.
  - a) 200
  - b) 275
  - c) 400
  - d) 500

8. A plug-in hybrid vehicle (PHEV) can be charged via:

- a) Plug-in Charger
- b) Regenerative Braking
- c) The Engine
- d) All of The Above

9. The number, expressed as a percentage, that represents the amount of battery capacity left after degradation is:

- a) MPGe
- b) State of Charge (SOC)
- · c) State of Health (SOH)
  - d) BCL

10. According to the IIHS, there are a reduced number of in EV crashes.

- a) Witnesses
- b) Injuries
- c) Vehicles
- d) Popped Tires

IDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).



Deviyakurichi , Thalaivasal -TK, Salem - 636112.

....

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

> VALUE ADDED COURSE ON "ELECTRIC VEHICLE DESIGN" 17/07/2023 to 21/07/2023

#### ASSESSMENT ANSWER

. 1.D
2. A
3. A
4.D
5. B
6. C
7.B
8.D
9.C
10.B

Dr.R.PUNIDHA,M.E.,Ph.D., RINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICHI - 636 112, THALAIVASAL (TK), SALEM (DT).



Deviyakurichi ,Salem Dt- 636112. (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

#### VALUE ADDED COURSE ON "WEARABLE TECHNOLOGY" (02/01/2023 to 06/01/2023)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ASSESSMENT QUESTIONS

#### STUDENT NAME: REGISTER NUMBER:

TOTAL MARKS: 10 DATE:

1. What are wearables?

A. Technological Gadget that people can wear

B. Clothes

C. Shoes

D. All kind of Technology

2. What is the version of IP addressing that wearable technology use?

A.ipv4

B.ipv6

C.ipv5

D.ipv3

3. What is a wearable health device?

A. Device to diagnose diseases

B. Device to monitor different health related measurements

C. A prescribed device from your computer

D. Device to detect illness

4. What is the benefit of tracking your sleep with a wearble health device?

A. Monitor trends to optimize your sleep

B. Helps you sleep better

C. Helps you to go to sleep faster

D. There is no benefit

A.M.E.,Ph.D., Dr.R.PUNIDE PRINCIPAL BHARATHIYAR INSTITUTE OF NEERING FOR WOMEN, YAKURICH! - 636 112, THALAWASAL (TK), SALEM (DT).

5. Wearable health devices can help your doctor in all of the following ways EXCEPT which one?

A. Monitor activity levels

B. Monitor heart rate trends

C. Monitor weight

D. Monitor disease progression

Which of these devices can control by TV , Air conditioner and receiver ?
 A. Google glasses

B. Rings

C. Watches

D. All the above

7. How many types of wearable technology?

A. 3 types

B. 2 types

C. 4 types

D. 5 types

8. What was the first wearable technology?

A. Eye glasses

B. Lens

C. Watch

D. None of the above

9. What was the most popular wearable device?

A. Apple Watch

B. Apple Air pods

C. Both A and B

D. None of the Above

10. What is the world's Largest Smart watch?

A. Neptune Pine

B. Pulse Pine

C. Both A & B

D. None of the above

Dr.R.PUN DHA.M.E. Ph.D.

PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL (TK), SALEM (DT),



Deviyakurichi ,Salem Dt- 636112. (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

VALUE ADDED COURSE ON "WEARABLE TECHNOLOGY" (02/01/2023 to 06/01/2023)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ASSESSMENT ANSWER KEY

A
 B
 B
 B
 A
 A
 D
 D
 D
 D
 B
 A
 A
 C
 A

Dr.R.PUNIDHA,M.E.,Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKUP:CHI - 636 112, THALAIVASAL ( A), SALEM (DT).



Deviyakurichi ,Salem Dt- 636112.

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

VALUE ADDED COURSE ON "PCB DESIGNING" (11/07/2023 to 15/07/2023)

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ASSESSMENT QUESTIONS

#### STUDENT NAME: REGISTER NUMBER:

TOTAL MARKS: 10 DATE:

1. Metals of large areas embedded in PCB are known as \_\_\_\_\_?

- a) Traces
- b) Planes
- c) Targets
- d) Regions

2. Which among the below stated soldering methods is also renowned as 'High Frequency

**Resistance Soldering?** 

a) Iron Soldering

- b) Furnace Soldering
- c) Torch Soldering
- d) Electrical Soldering

3. What is/are the necessity/ies to provide guarding to precision differential amplifiers?

- a) To increase leakage resistance
- b) To reduce capacitance between signal conductors & ground
- c) Both a and b
- d) None of the above

4. What should be the resistance of 0.6 mm wide conductor with 15 cm length and 25  $\mu$ m thickness of standard copper foil? (Assume  $\rho = 1.7241 \times 10^{-6} (at 20^{\circ} C)$ 

a) 118.2 mΩ

D.R. PUNIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).

Page 23 of 30

b) 138.2 mΩ

c) 172.4 mΩ

d) 192.4 mΩ

5. Which type of PCB requires minimum soldering on component side in order to avoid replacement oriented difficulties?

a) Single-sided PCB

b) Double-sided PCB

c) Both a and b

d) None of the above

6. What effects can be observed if the separate power and ground planes are provided with large conducting surfaces for better decoupling in PCB layouts?

a) Increase in self-inductance

b) Reduction in self-inductance

c) Stability in self-inductance

d) None of the above

7. High current circuits are purposely located or placed near the edge of PCB in 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

**8.** Which phenomenon is not reduced by the circuit paths of lowest impedances especially provided by power and return planes for shielding purposes?

a) Radiation

b) Convection

c) Noise

d) Crosstalk

9. 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

Dr.R.PUNIDHA, M.E., Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, That AIVASAL (TK), SALEM (DT).

Page 24 of 30

**10.** Which type of solderability testing is carried out for the generation of solder sample due to immersion of wire or sheet metal specimen in a bath of molten solder?

a) Solder Bath Testing

b) Meniscus Rise Testing

c) Solder Iron Testing

d) None of the above

Dr.R.PUNIDHA,M.E.,Ph.D.,

PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).



Deviyakurichi ,Salem Dt- 636112.

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

#### VALUE ADDED COURSE ON "PCB DESIGNING" (11/07/2023 to 15/07/2023)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ASSESSMENT QUESTIONS

1.	В
2.	Ď
3.	С
4.	С
5.	В
6.	В
7.	A
8.	В
9.	D
10.	В

Dr.R.PUNIDHA.M.E.,Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).



Deviyakurichi- 636 112, Thalaivasal (Tk), Salem (Dt)

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF SCIENCE AND HUMANITIES

#### ASSESSEMENT QUESTIONS

#### VALUE ADDED COURSE ON "COMMUNICATION ENGLISH"

**STUDENT NAME:** 

#### **REGISTER NUMBER:**

TOTAL MARKS: 10 DATE:

1. The English \_\_\_\_ won the world cup.

A. is

B. has

C. have

D. are

2. "Somebody \_\_\_\_ (Play) the drums". The simple past form of the word 'play' to fill the blank is \_\_\_\_

A. played

B. was playing

C. had played

D. had been playing

3. The first model of communication is said to have been developed by \_\_\_\_

- A. Plato
- B. Aristotle
- C. Ptolemy
- D. Steiner

#### 4. Which of the following is a part of speech?

- a. Noun
- b. Pronoun
- c. Verb
- d. all of the above

#### 5. What is a sentence?

- a. A group of ideas that form a complete paragraph
- b. A group of words that communicate a complete thought
- c. A set of rules that we must follow to write correctly
- d. A set of words that contains all the basic punctuation marks

#### 6. Which of these are question words R. PUNIDHA, M.E., Ph.D.,

a. What PRINCIPAL, b. Where BHARATHIWAR INSTITUTE OF ENGINEERING FOR WOMEN, c. How DEVIYAKURICHI - 636 112, d. All of the above THALAIVASAL'(TK), SALEM (DT).

#### 7. he word 'Communication' comes from the Latin word communicare,

#### meaning \_\_\_\_

- a. to give
- b. to know
- c. to share
- d. to follow

#### 8. A simple sentence has \_\_\_\_ and \_\_\_\_.

- A. subject and predicate
- B. subject and subordinate clause
- C. main clause and subordinate clause
- D. subject and the main clause

#### 9. A \_\_\_\_\_\_ is a group of words that communicates a complete thought.

- a. Phrase
- b. Sentence
- c. Antonyms
- d. Synonyms

#### 10. Which of the following is not the method of Communication?

- a. Verbal Communication
- b. Non-Verbal Communication
- c. Visible Communication
- d. None of the above

Dr.R.PUNIDHA,M.E.,Ph.D., PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112, THALAIVASAL'(TK), SALEM (DT).



BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN Deviyakurichi- 636 112, Thalaivasal (Tk), Salem (Dt) (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) DEPARTMENT OF SCIENCE AND HUMANITIES ASSESSEMENT QUESTIONS

#### VALUE ADDED COURSE ON "FUNDAMENTALS OF MATHEMATICS" STUDENT NAME: TOTAL MARKS: 10

#### **REGISTER NUMBER:**

DATE:

#### 1-A line which cuts a pair of parallel lines is called

(A) tangent

(B) chord

(C) traversal

(D) intersector

#### 2-An angle whose value is \_\_\_\_\_, is called complete angle.

- (A) 180°
- (B) 240°
- (C) 360°

(D) none of the above

3-The areas of two similar triangles are 81 sq. cm and 49 sq. cm. Find the ratio of their corresponding heights.

- (A) 9:7
- (B) 7:9
- (C) 6:5
- (D) 81:49

4-Consider  $\triangle ABD$  such that angle  $ADB = 20^{\circ}$  and C is a point on BD such that AB=AC and CD=CA. Then the measure of angle ABC is

(A) $30^{\circ}$	ALIAN
(B) 40°	Dr.R.PUNIDHA,M.E.,Ph.D.,
(C) 45°	BHARATHIYAR INSTITUTE OF
(D) 60	DEVIYAKURICH! - 636 112, THALAIVASAL (TK), SALEM (DT).

5-If the length and breadth of a rectangle are increased by a% and b% respectively, then the area will be increased by

(A) (a-b+2ab/100)%

- (B) (a+0+2a0/100)%
- (C) (a+b+ab/100)%
- (D) (a-b+ab/100)%

6-A, B and C can complete a piece of work in 14, 6 and 12 days respectively. Working together, they will complete the work in

- (A) 19/9 days
- (B) 27 days
- (C) 28/9 days
- (D) 25/8 days

7-If  $P^x = Q^y = R^z$  and Q/P = R/Q, then 2z/(x+z) = ?

- (A) y/z
- (B) y/x
- (C) x/y
- (D) z/y

8-A shopkeeper purchases 15 mangoes for Rs. 10 and sells them at 10 mangoes for Rs. 15. Thus, he earns a profit of

- (A) 50%
- (B) 75%
- (C) 80%
- (D) 125%

9-4950/6 + 112 x 1.75 = ? x 2

(A) 510.5

- (B) 505.2
- (C) 515.5
- (D) none of the above

A,M.E.,Ph.D., Dr.R.I PRINCIPAL, BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICH! - 636 112,

10-If a certain sum of money can become 5 times of its principal in 10 years, then the rate of interest is

(A) 20%
(B) 30%
(C) 40%
(D) 50%