Code:: **21P61602** **SR21** **SET-2**

SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC – Autonomous Institution

III B.Tech II Semester I MID Examinations, FEBRUARY – 2025

DEEP LEARNING

AIML

Time : **20 Mins**	Max. Marks:**20**			Date: 24-**02.2025**
Roll No:	Sign of the Student:			Marks Obtained:
Name:	Sign of invigilator:			Sign of Valuator:
CO	CO 1	CO 2	CO 3	Marks Obtained:
UNIT	I	II	III	Total Marks

1. Why do we need AI? **[ ]**

a) To replace human workers

b) To solve complex problems and automate tasks

c) To create more entertaining movies

d) To make robots that can do everything humans can

2. Which of the following is a benefit of AI? **[ ]**

a) It can lead to job losses b) It can be expensive to develop

c) It can improve decision-making d) It can be biased

3. What is supervised learning? **[ ]**

a) Learning from labeled data b) Learning from unlabeled data

c) Learning by trial and error d) Learning without any data

4. What is unsupervised learning? **[ ]**

a) Learning from labeled data b) Learning from unlabeled data

c) Learning by trial and error d) Learning without any data

5. What is reinforcement learning? **[ ]**

a) Learning from labeled data b) Learning from unlabeled data

c) Learning by trial and error d) Learning without any data

6. Which type of machine learning is used for spam filtering? **[ ]**

a) Supervised learning b) Unsupervised learning

c) Reinforcement learning d) None of the above

7. Which type of machine learning is used for customer segmentation? **[ ]**

a) Supervised learning b) Unsupervised learning

c) Reinforcement learning d) None of the above

8. What is a probabilistic model? **[ ]**

a) A model that makes predictions with certainty

b) A model that uses probability to handle uncertainty

c) A model that can only predict two outcomes

d) A model that is not used in real-world applications

9. What is a perceptron? **[ ]**

a) A type of deep learning model b) An early neural network

c) A type of machine learning algorithm d) A type of robot

10. What is a decision tree? **[ ]**

a) A flowchart-like structure for making decisions

b) A type of neural network

c) A type of machine learning algorithm d) A type of robot

11. Which of the following is a challenge in Deep Learning? **[ ]**

a) Data availability b) Computational resources

c) Interpretability d) All of the above

12. Which of the following is an advantage of Deep Learning? **[ ]**

a) High accuracy b) Automated feature engineering

c) Scalability d) All of the above

13. Which of the following is a disadvantage of Deep Learning? **[ ]**

a) High computational requirements b) Need for large labeled datasets

c) Interpretability issues d) All of the above

14. What is the role of Deep Learning in computer vision? **[ ]**

a) To enable machines to understand and interpret visual data

b) To process and generate human language

c) To train robots to perform physical tasks d) To analyze financial markets

15. What is the role of Deep Learning in natural language processing (NLP)? [ ]

a) To enable machines to understand and generate human language

b) To process and interpret visual data

c) To train robots to perform physical tasks

d) To analyze financial markets

16. What is the role of Deep Learning in reinforcement learning? [ ]

a) To train agents to take actions in an environment to maximize a reward

b) To process and interpret visual data

c) To enable machines to understand and generate human language

d) To analyze financial markets

17. Which Deep Learning network is known for its ability to handle long-term dependencies in sequential data? [ ]

a) LSTM (Long Short-Term Memory)

b) CNN (Convolutional Neural Network)

c) FNN (Feedforward Neural Network) d) Autoencoder

18. Which Deep Learning network uses attention mechanisms to process sequential data more efficiently? [ ]

a) Transformer Network b) RNN (Recurrent Neural Network)

c) CNN (Convolutional Neural Network) d) Autoencoder

19. What is the purpose of a Self-Organizing Map (SOM)? [ ]

a) To classify images b) To generate new data c) To cluster and visualize high-dimensional data d) To control robots

20. What is the main goal of a Capsule Network (CapsNet)? [ ]

a) To improve image classification accuracy

b) To generate realistic images

c) To handle spatial hierarchies better than CNNs

d) To compress data