

Code: 21P61602

SR21

SET-2

**SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

UGC – Autonomous Institution

**III B.Tech II Semester II MID Examinations, MAY – 2025**

**DEEP LEARNING**

**AIML**

Time: <b>20 Mins</b>	Max. Marks: <b>20</b>			Date: <b>01-05.2025</b>
Roll No:	Sign of the Student:			Marks Obtained:
Name:	Sign of invigilator:			Sign of Valuator:
CO	CO 3	CO 4	CO 5	Marks Obtained:
UNIT	III	IV	V	Total Marks

**1. What is the main goal of Machine Vision in deep learning?**

[      ]

- A) Understand grammar rules
- B) Enable machines to interpret images and videos
- C) Generate audio signals
- D) Translate languages

**2. Which deep learning model is commonly used for text generation and sentiment analysis?**

[      ]

- A) CNN
- B) RNN
- C) DBN
- D) GAN

**3. What does GAN stand for?**

[      ]

- A) Gradient Adjustment Network
- B) Generalized Artificial Network
- C) Generative Adversarial Network
- D) Generic Attention Network

**4. What are the two components of a GAN?**

[      ]

- A) Generator and Decoder
- B) Generator and Discriminator
- C) Discriminator and Transformer
- D) Classifier and Predictor

**5. Deep Reinforcement Learning combines neural networks with which concept?[       ]**

- A) Clustering
- B) Supervised learning
- C) Reinforcement learning
- D) Dimensionality reduction

**6. In Natural Language Processing, which model is widely used for sequence-to-sequence tasks? [       ]**

- A) GAN
- B) LSTM
- C) DBN
- D) RBM

**7. What is the primary use of an Autoencoder? [       ]**

- A) Classification
- B) Feature extraction and data compression
- C) Image generation
- D) Time-series prediction

**8. What is the hidden layer in an Autoencoder called? [       ]**

- A) Visible layer
- B) Encoding layer
- C) Output layer
- D) Classifier

**9. What type of network is a Boltzmann Machine? [       ]**

- A) Feedforward
- B) Probabilistic generative network
- C) Deterministic model
- D) Sequence model

**10. Which of the following is a restricted version of Boltzmann Machines? [       ]**

- A) Convolutional Neural Network
- B) Deep Belief Network
- C) Restricted Boltzmann Machine
- D) Multilayer Perceptron

**11. In binary classification, the output layer typically uses which activation function?[       ]**

- A) ReLU
- B) Softmax
- C) Sigmoid
- D) Tanh

**12. What type of loss function is usually used in binary classification?** [      ]

- A) Mean Squared Error
- B) Categorical Crossentropy
- C) Binary Crossentropy
- D) Hinge Loss

**13. Which type of classification deals with more than two classes?** [      ]

- A) Binary
- B) Multiclass
- C) Multilabel
- D) Regression

**14. The Reuters dataset is widely used for which task?** [      ]

- A) Image recognition
- B) Sentiment analysis
- C) Newswire classification
- D) Speech synthesis

**15. In multiclass classification, which activation function is commonly used in the output layer?** [      ]

- A) ReLU
- B) Sigmoid
- C) Tanh
- D) Softmax

**16. In neural networks, what is the role of the activation function?** [      ]

- A) Initialize weights
- B) Introduce non-linearity
- C) Perform optimization
- D) Store training history

**17. What does the acronym 'GPU' stand for?** [      ]

- A) General Processing Unit
- B) Graphics Processing Unit
- C) Great Performance Unit
- D) General Purpose Unit

**18. Which of the following is a popular optimizer used in training deep learning models?**

[      ]

- A) Gradient Descent
- B) Adam
- C) Naive Bayes
- D) Linear Regression

**19. Which layer type is usually the first in a Keras model?**

[      ]

- A) Dense layer
- B) Flatten layer
- C) Input layer
- D) Dropout layer

**20. What is the purpose of dropout in deep learning models?**

[      ]

- A) Increase model size
- B) Prevent overfitting
- C) Speed up training
- D) Increase accuracy on training data