

Code: 21P61602

SR21

SET-1

SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC – Autonomous Institution

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

DEEP LEARNING**AIML**

Time: 20 Mins	Max. Marks: 20			Date: 01-05.2025
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 basic unit of a Neural Network? []

A) Neuron B) Weight C) Loss D) Activation

2. In a neural network, what connects neurons between layers? []

A) Activation function B) Weights C) Bias D) Threshold

3. Which of the following is NOT a deep learning framework? []

A) Keras B) TensorFlow C) NumPy D) CNTK

4. What is TensorFlow mainly used for? []

A) Web Development B) Deep Learning C) Database Management
D) Operating Systems

5. What does Keras primarily provide to developers? []

A) Backend computation B) High-level API C) Low-level tensor operations
D) Hardware acceleration

6. Which deep learning library is developed by Microsoft? []

A) TensorFlow B) CNTK C) Keras D) Theano

7. Theano is mainly written in which programming language? []

A) Java B) Python C) C++ D) R

8. Setting up a deep learning workstation primarily requires which of the following?

A) High RAM B) Powerful GPU C) Large HDD D) Fast Internet []

9. What type of classification is involved in movie review sentiment analysis? []

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

10. Which dataset is commonly used for movie review sentiment classification? []

A) CIFAR-10 B) IMDB C) MNIST D) Reuters

- 11. What is the primary purpose of Convolutional Neural Networks (CNNs)?** []
A) Time-series prediction B) Image processing
C) Text classification D) Reinforcement learning
- 12. In CNNs, what operation is primarily used to extract spatial features?** []
A) Pooling B) Convolution C) Normalization D) Activation
- 13. What does the 'stride' in a convolutional layer control?** []
A) Number of filters B) Size of the filter
C) Step size of the kernel D) Learning rate
- 14. What is typically used after a convolutional layer in CNNs?** []
A) Dense layer B) ReLU activation C) LSTM D) Dropout
- 15. What is a "multichannel" convolution operation used for?** []
A) To reduce training time B) To process grayscale images
C) To handle RGB or multiple input channels D) To avoid overfitting
- 16. What kind of neural network is best suited for sequential data like text or time-series?**
A) CNN B) RNN C) MLP D) Autoencoder []
- 17. Which type of RNN is designed to overcome long-term dependency issues?** []
A) Vanilla RNN B) GRU C) LSTM D) Residual RNN
- 18. What does an RNN use to store past information?** []
A) Convolutional filters B) Hidden state C) Weights D) Gradient
- 19. What happens in the RNN cell at each time step?** []
A) Output is ignored B) Input is reset
C) Previous hidden state is used D) Bias is removed
- 20. In PyTorch, what object represents data structures used in neural networks?** []
A) NumPy arrays B) Lists C) Tensors D) Dictionaries