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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE)(Sem.–7,8)

DEEP LEARNING

Subject Code : BTCS-704-18

M.Code : 90495

Date of Examination : 02-12-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of TEN questions carrying TWO marks each.
2. **SECTION-B** contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. **SECTION-C** contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) Machine Learning
- b) Mean Absolute Error
- c) Data Augmentation
- d) Decoders
- e) Deep Belief Networks
- f) Feature Scaling
- g) Adversarial Training
- h) Recursive Neural Networks
- i) Clustering
- j) Deep Learning

SECTION-B

2. Why sometimes deep learning algorithms fail to generalize simple data?
3. Differentiate between supervised and unsupervised learning technique.
4. Discuss the sigmoid belief networks.
5. *"Injecting noise into the input of a neural network can be seen as data augmentation"*. Justify.
6. What is the role of RNNs in language modeling?

SECTION-C

7. Discuss the various types of deep neural networks.
8. Write the process of drawing samples from auto-encoders.
9. Explain the various challenges to implement machine learning techniques.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.