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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (Sem.–7, 8)

DEEP LEARNING

Subject Code : BTCS704-18

M.Code : 90495

Date of Examination : 05-05-2025

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) Feature Extraction
- b) Learning
- c) Cost Function
- d) Classification
- e) Hidden Units
- f) Computational Graphs
- g) Deep Feed-forward Network
- h) Convolution Networks
- i) Deep Generative Models
- j) Sequence Modeling

SECTION - B

2. How traditional computer programming is different from machine learning?
3. Why data set augmentation is effective for the classification problem of object recognition?
4. What are the various limitations of neural networks?
5. How do RNNs handle variable-length inputs?
6. What is the difference between visible and hidden units in Boltzmann machines?

SECTION - C

7. Why bayesian statistics is important? How bayesian statistics is related to machine learning?
8. Explain the various issues and their solutions while implementing deep generative models.
9. Discuss the unsupervised features and neuroscientific for convolution network.

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.