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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (AI & ML)(Sem.–7,8)

DEEP LEARNING

Subject Code : BTCS 704-18

M.Code : 93998

Date of Examination : 02-12-2024

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) Under-fitting
- b) Variance
- c) Optimization techniques
- d) Parameter penalties
- e) Convolution operation
- f) Echo state networks
- g) Sequence-to-sequence architecture
- h) Deep recurrent networks
- i) Sigmoid belief networks
- j) Boltzmann machines.

SECTION-B

2. Explain the stochastic gradient decent.
3. Discuss the feed-forward networks.
4. Describe the features of data augmentation.
5. List the various limitations of RNNs.
6. Explain the restricted Boltzmann machines.

SECTION-C

7. Differentiate between supervised and unsupervised learning.
8. How recurrent networks are applied for sequence modelling?
9. Discuss the various deep generative models.

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.