

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (AI&ML / CSE) (Sem.-7)

DEEP LEARNING

Subject Code : BTCS704-18

M.Code : 93998

Date of Examination : 29-11-2023

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) Estimators
- (b) Bias
- (c) Hidden units
- (d) Data augmentation
- (e) Pooling
- (f) Convolution function
- (g) Recursive neural network
- (h) Bidirectional RNN
- (i) Deep learning
- (j) Auto encoders.

SECTION-B

2. Define learning. Discuss the various types of learning techniques.
3. Explain the significance of computational graphs. Give suitable example.
4. Compare the features of various deep generative models.
5. Describe the sigmoid belief networks. List its features.
6. Discuss the advantages of convolution networks.

SECTION-C

7. Discuss the properties of deep forward networks.
8. What are directed generative nets? How samples are drawn from auto encoders?
9. Compare and explain the various deep learning architectures.

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.