

Total No. of Questions : 8]

SEAT No. :

P6630

[Total No. of Pages : 2

[6181]-193

B.E. (Information Technology)

DEEP LEARNING

(2019 Pattern) (Semester - VII) (414443)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer 1/2, 3/4, 5/6, 7/8 questions.
- 2) Assume Suitable data if necessary.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right side indicate full marks.

- Q1)** a) Discuss Feed-Forward Neural Networks vs Recurrent Neural Networks. [8]
b) Explain Recurrent Neural Networks and types of Recurrent Neural Networks. [9]

OR

- Q2)** a) Explain Long Short-Term Memory Networks (LSTM) in detail. [8]
b) Explain Encoder Decoder architectures, Recursive Neural Networks. [9]

- Q3)** a) Discuss different types of Applications of Autoencoders. [9]
b) Describe Denoising Autoencoders, Contractive Autoencoders. [9]

OR

- Q4)** a) Explain Regularized Autoencoders-Sparse Autoencoders. [9]
b) State and explain Undercomplete Autoencoders. [9]

- Q5)** a) Discuss Greedy Layer wise Pre-training methods. [9]
b) Explain Dense Net in detail. [9]

OR

P.T.O.

- Q6)** a) Elaborate Variants of CNN in detail. [9]
b) Explain Transfer Learning and Domain Adaption. [9]

- Q7)** a) Discuss Speech Recognition using Deep Learning. [9]
b) Explain Recommender system in detail. [8]

OR

- Q8)** a) What are Image Classification Techniques. [9]
b) Explain Natural Language Processing in detail. [8]

