

Total No. of Questions : 8]

SEAT No. :

P-6620

[Total No. of Pages : 2

[6181]-183

B.E. (E & TC Engineering)

DEEP LEARNING

(2019 Pattern) (Semester - VII) (Elective-IV) (404185C)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Figures to the right indicate full marks.
- 2) Neat diagrams must be drawn whenever necessary.
- 3) Assume suitable data, if necessary.

- Q1)** a) What is batch normalization? How batch normalization works? [8]
b) Explain Dropout Technique. What is intuition behind dropout? [9]

OR

- Q2)** a) Write note on Auto Encoder. Explain Architecture of Autoencoders. [9]
b) Distinguish between Autoencoders and Restricted Boltzmann Machine.[8]

- Q3)** a) What is VGG architecture? How Speed and Accuracy of VGG is greater than AlexNet. Explain. [11]
b) Explain any 3 Regularization techniques for Neural Networks. [6]

OR

- Q4)** a) Explain DenseNet architecture with its advantages and disadvantages.[10]
b) How does Batch Normalization work? [7]

- Q5)** a) What Recurrent neural network? Explain it's architecture in detail? [10]
b) What is LSTM and it's working? [8]

OR

P.T.O.

- Q6)** a) How does Vanishing Gradient problem occurs in RNN. [8]
b) What Are Generative Models? What Are Generative Adversarial Networks? Why Generative Adversarial Networks? [10]

- Q7)** a) Explain Image classification applications using Transfer learning architect. [12]
b) Explain Image recognition using deep learning. [6]

OR

- Q8)** a) Explain sentiment analysis of any social media application? [9]
b) Explain spam mail classification applications using NLP? [9]

