SEAT No. :

PC235

[6361]-101

B.E. (Information Technology) (Insem)
DEEP LEARNING
(2019 Pattern) (Semester-VII) (414443)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

1) Answer Q.1 or Q.2, Q.3 or Q.4.

2) Neat diagrams must be drawn wherever necessary.

3) Figures to the right indicate full marks.

4) Assume suitable data if necessary.

Q1) a) Define Deep Learning with suitable Architecture. **[5]**

b) What is hyper parameter? Describe categories of hyper parameters? **[5]**

c) Differentiate between Single layer feed forward Neural Network and Multi Layer feed Forward Neural Network . **[5]**

OR

Q2) a) Explain following Activation functions. **[7]**

i) ReLU

ii) LReLU

iii) EReLU

b) What is the problem of vanishing gradient? Explain the various solutions to avoid it? **[8]**

P.T.O.

Q3) a) Explain Alexnet architecture as per its layer. **[5]**

b) Explain types of pooling with example. **[5]**

c) Enlist and explain layers of CNN. **[5]**

OR

Q4) a) Explain CNN architecture also explain functions of Hidden Layers. **[7]**

b) What is convolution operation ? Explain circular and discrete convolution operation? **[8]**

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