

Total No. of Questions : 4]

SEAT No. :

PC235

[6361]-101

[Total No. of Pages : 2

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]

