

Total No. of Questions : 4]

SEAT No. :

P8507

[Total No. of Pages : 1

Oct-22/BE/Insem - 105
B.E. (Information Technology)
DEEP LEARNING
(2019 Pattern) (Semester - VII) (414443)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Draw and explain the architecture of Multilayered Feedforward Neural network. [5]
b) What is the need of Regularization? Explain Dropout Regularization. [5]
c) Explain the concept of gradient based Learning. [5]

OR

- Q2)** a) What is the problem of vanishing Gradient? Describe various solutions to this problem. [7]
b) Explain the working of an Artificial neuron. Also explain the activation functions ReLU and LReLU. [8]

- Q3)** a) Illustrate Convolution operation in CNN with an example. [5]
b) Explain the use of padding and strides in pooling layers. [5]
c) What is the advantage of weight sharing in CNN. [5]

OR

- Q4)** a) What are pooling layers in CNN? Illustrate Max pooling with an example. [5]
b) Discuss applications of CNN. [5]
c) Write short note on AlexNet. [5]

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