Total No. of Questions : 4]

SEAT No. :

PA-10122

[Total No. of Pages : 1

[6009]- 426

T.E. (Artificial Intelligence and Data Science) (Insem)
ARTIFICIAL NEURAL NETWORK
(2019 Pattern) (Semester - II) (317531)

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 side indicate full marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) What is a neural network activation function? State its Types? **[5]**

b) Explain architecture of Artificial Neural Network with a neat diagram. **[5]**

c) Explain Mc-Culloch & Pitts model with an example. **[5]**

OR

Q2) a) What are the main differences among the three models of artificial neuron, namely, McCulloch-Pitts, Perceptron and Adaline? **[5]**

b) Explain the structure and working of Biological Neural Network? **[5]**

c) Differentiate between Biological Neural Network and Artificial Neural Network. **[5]**

Q3) a) Explain Perceptron Learning Algorithm with an example. **[5]**

b) Explain the architecture of Multilayered neural network. **[5]**

c) Write and explain the steps of Back Propagation Learning algorithm. **[5]**

OR

Q4) a) Draw the architecture of Back Propagation Network and explain in detail. **[5]**

b) Differentiate between Feed forward and Feedback neural network. **[5]**

c) What is Error Correction and how to minimize these errors? **[5]**

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