SEAT No. :

PA-10122

[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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