UG EVEN SEMESTER (CBCS) EXAMINATION, SEPTEMBER - 2021

COMPUTER SCIENCE

8th Semester

COURSE NO. MCSCC - 804 / MS - 204

(Neural Network)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

(Answer any five questions, taking one from each unit)

UNIT - I

1. a) Compare biological and artificial neuron?   7

    b) What is X-OR problem? Explain.   7

2. Discuss about different neural network architecture.   14

UNIT - II

3. Discuss the Back Propagation Algorithm.   14

4. a) Explain back propagation network.   7

    b) Explain about RBF network.   7

UNIT - III

5. Explain.   7+7=14

    i)   Recurrent network.

    ii) Boltzman Machine.

6. Discuss.   7+7=14

    i)   Hebbian Learning.

    ii) Adaptive Resonance Theory.

UNIT - IV

7. Explain about associative memories, Matrix, Auto, Hetero, and bidirectional memories.   14

8. Describe in detail.   7+7=14

    i)   Fuzzy Neuron.

    ii) Fuzzy Neuro Controller.

UNIT - V

9. Describe in detail.   7+7=14

    i)   Expert system.

    ii) Decision making system.

10. Discuss about domains of application of neural network.   7+7=14

    i)   Pattern Recognition.

    ii) Neuro Controllers.