UG/PG Even Semester Examination, 2025

COMPUTER SCIENCE

(8th Semester)

Course No.: MCSC-804/MS-204

(Artificial Neural Network)

Full Marks: 70

Pass Marks: 28

Time: 3 hours

The figures in the right margin indicate full marks for the question. Answer any five questions selecting one from each unit.

UNIT-I

1. a) Discuss the architecture of artificial neuron. 7

   b) Discuss delta rule. 7

2. Explain in Detail: 14

   i) Supervised Learning.

   ii) Unsupervised Learning.

UNIT-II

3. What are back propagation neural network. Discuss Back propagation algorithm in detail. 14

4. Discuss applications of back propagation and Radial Function network. 14

Turn Over

UNIT-III

5. Explain in detail: 14

   i) Counter back propagation Network.

   ii) Boltzman machine.

6. Explain: 14

   i) Kohonen's Self Organizing feature maps,

   ii) Adaptive Resonance Theory.

UNIT-IV

7. Give the definition of Associative Memories and explain Matrix, Auto, Hetero associative memories. 14

8. Explain: 14

   i) Fuzzy Neurons.

   ii) Fuzzy Neuro Controllers.

UNIT-V

9. Discuss different Domains of Application of Neural Networks. 14

10. Discuss in detail Expert System & Decision Making system. 14

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