

**Class–M.Sc (IT)-IV Sem.
Subject –Neural Networks**

Time Allowed : 3 Hours

Maximum Marks :100

Note: Attempt any five questions.

- 1. (a) Explain Architecture of Neural Network. 10
- (b) What are different types of learning techniques used in NN? 10
- 2. (a) Explain method of steepest descent with example. 12
- (b) What are the various activation functions used in ANN ? 8
- 3. Describe ART-1 in detail. 20
- 4. (a) Explain LMS in details. 10
- (b) How can single layer perceptron be trained to simulate OR, AND gate? 10
- 5. How perceptron learning is poorly behaved? Explain pocket algorithm with and without ratches. 20
- 6. How Hopfield model will be helpful in Neural Network with example? 20
- 7. (a) Write short note on Art2. 10
- (b) Write about K-mean clustering. 10

8. Explain following :

- (a) Topology Preserving maps
- (b) Outer Product Rule

20

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