

Roll No.

24489

**B. Tech. 7th Semester (CSE)
Examination – May, 2015**

NEURAL NETWORKS

Paper : CSE-407-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is compulsory. Attempt five questions in total selecting *one* question from each Section.

1. (a) Application of ANN 4 × 5 = 20
(b) Biological Neuron
(c) Clustering
(d) Role of learning factors

SECTION – A

2. Explain various models of ANN with their corresponding advantages & disadvantages. 20

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3. (a) Use MC culloch- Pitts neuron to design logic networks of AND & OR Logic function. 10

- (b) Write short note on Widrow-Hoff learning rule. 10

SECTION – B

4. (a) Explain the linearly separable classification with suitable example. 10

- (b) Explain Error Back propagation training algorithm. <http://www.HaryanaPapers.com> 10

5. (a) In which manner multilayer perception models differ from single layer perception model. Explain the reasons for emergence of multilayer perception model. 10

- (b) Write short note on delta learning rule. 10

SECTION – C

6. Explain the various architectures of Hopfield network in detail. How learning process occurs in Hopfield network. 20

24489-1650-(P-3)(Q-9)(15) (2)

7. (a) Explain the architecture of associative memory in detail. Also discuss its retrieval algorithm. 10
- (b) Explain how encoding & decoding takes place in associative memory. 10

SECTION - D

8. Write short note on : 4 × 5 = 20
- (a) Unsupervised learning of clusters
- (b) Recall mode
- (c) Initialization of weights
- (d) Separability limitation
9. What is competitive learning ? How it is different from conventional learning ? Discuss its significance & usefulness in neural networks. 20

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