

72464

B.E./B. Tech. (CSE) 7th Semester
Examination – December, 2019

NEURAL NETWORKS**Paper : CSE-407***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 : Attempt five question in all. Question No. 1 is compulsory. Attempt one question from each Section.

1. Explain the following :

- | | |
|---------------------------|---|
| (a) Learning factors | 5 |
| (b) Biological neuron | 5 |
| (c) Unsupervised learning | 5 |
| (d) Application of ANN | 5 |

SECTION – A

2. Explain various models of artificial neural networks with their corresponding advantages and disadvantages. 20
3. (a) What do you mean by feedforward and feedback networks ? Explain. 10
- (b) Explain Hebbian learning rule. 10

SECTION – B

4. (a) In which manner multilayer perception models differ from single layer perception model ? Explain the reasons for emergence of multilayer perception model. 10
- (b) Explain error back propagation training algorithm. 10
5. (a) Explain single continuous perceptron training algorithm. 10
- (b) Explain delta learning rule. 10

SECTION – C

6. (a) What is associative memory ? Explain its various types in detail with suitable example. 10
- (b) Explain storage and retrieval algorithm for associative memory. 10

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7. (a) Explain Hopfield network in detail. 10
 (b) Differentiate auto and hetro associative memory. 10

SECTION – D

8. Explain in detail unsupervised learning of clusters. 20
9. Write short note on :
- (a) Unsupervised learning of clusters 5
 - (b) Initialization of weights 5
 - (c) Recall mode 5
 - (d) Winner-take-all learning 5

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