



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2015

CA 5955 - NEURAL NETWORKS USING MATLAB

Date : 13/11/2015
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL Questions

(10 * 2= 20)

1. Distinguish between Metalevel and Object level knowledge
2. What is the topology of Neural network?
3. Define Recurrent networks.
4. Give an example for unsupervised learning.
5. Define system theory.
6. Compare open and close system.
7. Define Hamming network.
8. What is control neural network?
9. Define spatial representation.
10. What is temporal summation network refers?

Part – B

Answer ALL Questions

(5 * 8= 40)

11. a) Explain the basic concepts of neural network.

(or)

b) Write short notes on BAM algorithm.

12. a) Explain Supervised Vs Unsupervised learning.

(or)

b) Write short notes on ID3 algorithm.

13. a) Write short notes on COBWEB algorithm.

(or)

b) Discuss on the applications of neural networks.

14. a) Write short notes on Hybrid models

(or)

b) Explain Neocognitron network architecture in detail.

15. a) Compare local and distributed connectionist representation in neural network.

(or)

b) Write short notes on static neural network.

Part – C

Answer any TWO Questions

(2 * 20= 40)

16. Discuss Hopfield Net algorithm for Autoassociation –

20 Marks

17. a) Explain Rule-Based neural network in detail.

b) Discuss Equation based approaches in neural network.

18. a) Discuss Differentiation model in detail.

b) Explain the various Knowledge based Approaches.
