LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034



M.Sc. DEGREE EXAMINATION - COMPUTER SCIENCE

SECONDSEMESTER – APRIL 2017

CS 2956- NEURAL NETWORKS

Date: 03-05-2017 Time: 01:00-04:00 Dept. No.

Max.: 100 Marks

(10*2=20)

SECTION-A

ANSWER ALL THE QUESTIONS:

- 1. Define Perceptron.
- 2. What is lateral inhibition in Neural Network?
- 3. Define Learning.
- 4. What is Network Pruning?
- 5. Define Incremental Learning.
- 6. State Bayesian theorem.
- 7. Write a note on Hamming Networks.
- 8. What is Divide and Conquer technique?
- 9. Define spatiotemporal data.
- 10. What is spatial Summation?

SECTION-B

ANSWER ALL THE QUESTIONS:

(5*8=40)

11. a) Explain the tasks involved in constructing the Neural Network.

(OR)

- b) Explain the single layer perceptron algorithm.
- 12. a) Explain about the supervised and unsupervised learning.

(OR)

- b) Explain the Version space algorithm.
- 13. a) Give an account on system Identification and control.

(OR)

- b) Explain the COBWEB algorithm.
- 14. a) Explain the counter propagation Networks.

(OR)

- b) Explain about Genetic Search.
- 15. a) Explain the Connectionist representation.

(OR)

b) Explain the Time delay Neural Networks.

	SECTION-C		
ANSWER ANY TWO:	(2X20=40)		
16. i) Discuss in detail about Kohonen Net	tworks with example.		(10)
ii) Explain in detail about back propag	ation algorithm with example.		(10)
17. i) Discuss in detail about ID3 algorithm	n with example.		(10)
ii) Explain in detail about Cascade Con	rrelation Learning.		(10)
18. i) Explain in detail about the Temporal	l model.		(10)
ii) Explain about Knowledge based Neural	Network Architecture.	(10)	
