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Roll No.:

B. E. (Eighth Semester) Examination, 2020 (New Scheme)

(CSE, IT Engg. Branch)

NEURAL NETWORK and FUZZY LOGIC

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d) of each question.

Unit-I

1.	(a) Define recurrent network?	2
	(b) Describe the different topologies of Neural network?	7
	(c) Differentiate between single layer & multi layered	
	feed forward neural network?	7
	(d) Explain the perception learning algorithm in detail?	7

Unit-∏

2.	(a) Define stability and convergence?	2
	(b) Describe the competitive learning algorithm in detail.	7
	(c) Explain the credit assignment problem in detail?	7
	(d) Differentiate between supervised and unsupervised	
	learning in detail.	7
	Unit-III	
3.	(a) What is generalized delta rule?	2
	(b) Explain the least mean algorithm in detail?	7
	(c) Simulate the back propagation algorithm.	7
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	.05 (25 w3)	

.55 w8

(9) Differentials between single laver

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.30 w4

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	(d) Describe the Adaline algorithm in detail.	7
	Unit-IV	
4.	(a) Define Talking Network.	2
	(b) Explain speech recognition system in details.	7
	(c) Differentiate between character and handwritten recognition?	7
	(d) Describe the different application of pattern recognition?	7
	Unit-V	
5.	(a) Define Fuzzy set?	2
	(b) Explain fuzzy associative memory?	7
	(c) Describe fuzzy operations in brief?	7
	(d) Describe defuzzification in detail?	7