Printed Pages – 3 Roll No.:.... 5 322840(22) and medical file. B. E. (Eighth Semester) Examination, April-May 2021 (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. liced and Unit-Levy used set pushpill (d) 1. (a) Define topology in neural network. 2 (b) What are three main difference among three models of artificial neurons, namely McCulloh-Pitts perceptron and Adaline. PTO 322840(22)

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	(c)	Discuss the various neural network architecture in detail.	7
	(d)	Explain the Perceptron learning algorithm in detail.	7
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2.	(a)	What is Recall in neural network?	2
	(b)	Describe memory models in neural network.	7
	(c)	Explain credit assignment problem with neat diagram.	7
	(d)	Differentiate between Supervised and Unsupervised	
		learning strategies in detail.	7
		Unit-III	
3.	(a)	Define generalized Delta rule.	2
	(b)	Explain the least mean algorithm in detail.	7
	(c)	State and prove the perception convergence	1
		theorem.	7
	(d)	Compare & contrast Adaline and Madaline.	7

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Unit-IV

4.	(a) Define Talking Network.	2
	(b) Differentiate between Character and Handwritten recognition in detail.	7
	(c) Describe the different application of pattern recognition.	7
	(d) Discuss phonetic typewriter application.	7
	Unit-V	
5.	(a) What is Fuzzy Associative Memory?	2
	(b) Explain various operations on fuzzy sets.	7
	(c) Describe fuzziness in neural network.	7
	(d) Describe defuzzification in detail.	7
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