M.Tech. 2nd Semester (CSE) CBCS Scheme Examination, May-2017 SOFT COMPUTING Paper-MTCSE22C1

Time	ali	lowed: 3 hours] [Maximum marks: 100		
Note	•	Question Number 1 is compulsory. Attempt any five questions taking at least one question from each section. All questions carry equal marks.		
1.	(a)) What is multilayer perceptron model? 4×5=20		
	(b) How can you generate Fuzzy rule?		
	(c) What is Fuzzy rule generation?		
	(d) What is Fuzzy Propositions?		
		Unit–I		
2.	(a) Discuss various Mathematical model of neurons in detail.		
•	(b) Explain gradient descent algorithm. 10		
3.	Explain Delta and Back propagation algorithm in detail.			
		Unit–II		
4.	(a) What are the properties which a fuzzy set A-on F must possesses to qualify as a fuzzy number?		

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		(2)	22643
	(b)	What is membership function? Expl help of examples.	ain with the
5.	_	at is fuzzy set? Explain the charac	teristics of
	1022	zy set.	20
		Unit–III	
6.	Wri	te short note on:	
	(a)	Fuzzy numbers	10
	(b)	Lattice of fuzzy numbers.	10
7.	Wri	te short note on:	
	(a)	Fuzzy equations	10
	(b)	Fuzzy Qualifiers.	10
		Unit-IV	
8.	(a)	Explain information and uncertainty.	10
	(b)	Explain Fuzziness of fuzzy sets.	10

Explain non-specificity of fuzzy.