Total No. of Questions: 8]	SEAT No.:
P2351	[Total No. of Pages : 2

[5254]-684 B.E. (I.T.)

SOFT COMPUTING (2012 Pattern) (Semester - I) (Elective - I)			
Time: 2½	[Max. Marks: 70 ons to the candidates:		
1) 2)	Figure to the right indicate full marks. Assume Suitable data if necessary.		
Q1) a) b) c)	List and characterize the constituents of soft computing. [6] Explain the types of pattern recognition tasks. [6] What is Boltzman machine? With neat sketch explain its architecture. [8]		
	OR		
Q2) a) b) c)	Give an example of intelligent system and elaborate it. [6] Explain the limitations of perceptron as a classifier. [6] What is SOM? Explain training algorithm for SOM. [8]		
Q3) a) b)	Explain the merits and demerits of fuzzy logic. [8] Explain the alpha-cut method for discrete fuzzy sets to perform arithmetic operations. [8] i) Subtraction. ii) Multiplication.		
	OR		
Q4) a) b)	"Behavior of fuzzy logic is deterministic"? Justify. What are fuzzy relations? Explain following operation on fuzzy relations. i) Intersection. [8] ii) Containment.		

Q5)	a) b)	Is it advisable to apply genetic algorithm for all kinds of optimization problems? Justify. [10] What is evolutionary programming?		
OR				
Q6)	a) b)	What are types of crossover and mutation techniques. [10] What are limitations of genetic algorithms.)] 6]	
Q7)	a) b)	-	d- 9] 9]	
OR				
Q8)	a) b)		re]]	

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