Total No. of Printed Pages:2

SUBJECT CODE NO:- H-185 FACULTY OF SCIENCE AND TECHNOLOGY B.E. (CSE)

Soft Computing (REVISED)

[Time: Three Hours]			[Max.Marks: 80]
N.B		Please check whether you have got the right question paper. i) Q.No.1 from section A and Q.No.6 from section B are compulsory. ii) Attempt any two questions from the remaining. iii) Assume suitable data if necessary. And state it Cleary. Section A	
Q.1		Differentiate soft computing and hard computing. Explain characteristics of neural networks.	05 05
Q.2		Explain Adaline model in detail. Explain pattern recognition problem.	07 08
Q.3	a) b)	Explain single layer and multilayer perceptron in detail. Explain error correction and gradient decent rules in details.	07 08
Q.4		Explain back propagation learning algorithm in details. Explain pattern classification with example.	07 08
Q.5		Explain architecture of FBNN. Explain associative memory.	07 08
		Section B	
Q.6		Explain pattern clustering in details Explain self-organization map.	05 05
Q.7		Explain learning vector quantization. Explain fuzzy sets.	07 08

Examination NOV/DEC 2018

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Q.8	a) Explain fuzzification and defuzzification to crisp sets.b) Explain fuzzy relational data models in details.	07 08
Q.9	a) Explain properties of membership function.b) Explain competitive learning.	07 08
Q.10	a) Explain working principle of genetic algorithm.b) Explain application of fuzzy control.	07 08