Total No. of Printed Pages:2

SUBJECT CODE NO:- H-185

FACULTY OF ENGINEERING AND TECHNOLOGY

B.E. (CSE)

Soft Computing

(REVISED)

[Time: Three Hours] **[Max.Marks: 80]**

Please check whether you have got the right question paper.

N.B I) Q.No.1 from section A and Q.No.6 from section B are compulsory.
II) Attempt any two questions from remaining question of each section.
III) Assume suitable data if necessary and solve it clearly.

Section A

Q.1	a)	Explain the various types of soft computing techniques.	05
	b)	Explain perception model.	05
Q.2	a)	Explain supervised learning and unsupervised learning.	07
	b)	Explain functional units of ANN for pattern recognition.	08
Q.3	a)	Explain architecture of FFNN.	07
	b)	Explain pattern association by FFNN.	08
Q.4	a)	Explain Hopfield network.	07
	b)	Explain associative memory.	08
Q.5	a)	Explain auto association and hetero association	08
	b)	Explain back propagation learning algorithm.	07

Section B

Q.6	a)	Explain self-organization map.	05
	b)	Explain learning vector quantization	05
Q.7	a)	Explain crisp relations	07
	b)	Explain fuzzification and defuzzification to crisp sets.	08
Q.8	a)	Explain generalized learning laws.	07
	b)	Explain applications of fuzzy control.	08

Q.9	a)	Explain operations in fuzzy relational data models	07
	b)	Explain fuzzy relations	08
Q.10	a)	Explain working principle of genetic algorithm.	07
	b)	Explain fuzzy linear programing with example.	08