B.E. CIT) CSem-VII) CCB)

Date-22/11/19

Paper / Subject Code: 42658 / Soft Computing (DLOC - III)

	(3 Hours) [Total Marks	: 80]
Atte Q. 1 a) Diff b) Dis c) Exp	restion No. I is Compulsory mpt any 3 Questions from the Remaining Questions. The rentiate the following: Convex and nonconvex fuzzy set. cuss any two methods of defuzzification. Colain activation functions in ANN. It the application of GA.	20
Q. 2 a) De ope	sign neural networks with only one M-P neuron that implements the three basic erations: NOT (x1); (ii) OR (x1, x2); (iii) NAND (x1, x2), where x1 and x2 ϵ {0, 1}. Secuss any two learning techniques in Neural Network in detail.	o logic 10
Q. 3 a) Lis	t the stages involved in training of back propagation network.	10
	plain architecture of Character Recognition algorithm using ANN plain in detail selection and encoding operators involved in genetic algorithm.	10 10
Q. 5 a) W	ith a neat flowchart, explain the steps of a simple genetic algorithm.	10
b) Ex	plain FIS in detail. Compare Mamdani FIS and sugeno FIS.	10
	aw and explain ANFIS architecture in detail. st and explain the advantages of Neuro-Genetic Hybrid systems in detail.	10

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