Roll	No.	Total No. of Pages : 01
Total No. of Questions : 08		
Ph.D Examination		
	NEURAL NETWORKS & FUZZY LOC M.Code : 78010	GIC (ECE/CSE)
Time	e: 3 Hrs.	Max. Marks : 100
INSTRUCTIONS TO CANDIDATES:		
	Attempt any FIVE questions out of EIGHT question Each question carries TWENTY marks.	S.
Q1	a) Explain structure and function of a biological neuron.	
	b) How the human brain learns?	
Q2	a) Differentiate between 'Classification' and 'Clustering'.	
	b) What is use of artificial neural network in adaptive cont	rol?
Q3	a) Explain linear separability.	
	b) Write about gradient decent algorithm.	
Q4	a) What is use of back propagation algorithm?	
	b) What are the feed forward neural networks?	
Q5	a) Explain kohonen network in detail.	
	b) What is a hopfield network?	
	a) Explain hi-directional acceptate memory in detail	

Q6 a) Explain bi-directional associate memory in detail.

b) What do you mean by stability of equilibrium states?

a) What is difference between 'fuzzy set' and 'crisp set' linguistic variables?

b) Explain fuzzy relations in detail.

a) Explain fuzzy IF-THEN rule with the help of an example.

b) What are various defuzzification techniques?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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