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Roll No.	. Total No. of Pa	ages : 02
Total No	o. of Questions: 8	
M.Tech. (EE) (2018 Batch) (Sem2) AI TECHNIQUES Subject Code: MTEE-204C-18 M.Code: 76108		
Time: 3 Hrs. Max. Marks: 60		
1. Atte	CTIONS TO CANDIDATES : empt any FIVE questions out of EIGHT questions. th question carries TWELVE marks.	
ne	hat is biological neuron? How does the artificial neural network based of uron? Explain with neat diagram. What is the difference between bias an anction? What are the types of neural networks? Explain.	
Ex	ow does the fuzzy value differ from crisp value? How the fuzzy logic control to the control of t	
	ow does hybrid fuzzy neural network systems works? Explain any one algo- akes neural network to learn the parameters of the network like genetic algo-	
4. Ex	plain the following:	
a)	Feedback and feed forward network	(6)
b)	Single layer and multilayer network	(6)
mı	hat is genetic algorithms? How do they work? How reproduction creatation occurs in genetic algorithms? Explain with suitable diagram and explications of genetic algorithms.	
6. a)	What is fuzzification? Why fuzzification is done? What is membershi What does it signify?	p in fuzzy? (4)
b)	How degfuzzification is done? Discuss seven defuzzification methods.	(8)
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- 7. How Fuzzy logic, Neural network, fuzzy neural network and genetic algorithm are related to each other or what is the difference in their applications? Elaborate. Also what are evolutionary algorithms? (12)
- a) What is back propagation algorithm? How does it work? Explain with application.
 - b) Develop a temperatue and humidity process control system using fuzzy logic controller and explain the working.
 (6)

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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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