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Roll	No.		otal No. of Pages :	02
Tota	l No	o. of Questions : 8		
		M.Tech. (ECE) (2018 Batch) (Sen NEURAL NETWORKS Subject Code: MTEC-PE3C-18 M.Code: 76263		
Time	: 3	Hrs.	Max. Marks :	60
1.Atte	mp	CTIONS TO CANDIDATES : t any FIVE questions out of EIGHT questions. uestion carries TWELVE marks.		
Q1	a)	Write the types of various activation functions used in no them in detail.		vo ot [06]
	b)	What is learning? Explain the reinforcement learning with	th an example.	[06]
Q2	a)	Discuss the importance of back propagation algorithm. Explain one of applications in detail.		
	b)	Draw and explain the working of McCulloch-Pitts mode	l of neural network.	[06]
Q3	a)	What is content addressable memory? Discuss the difference between instar outstar learning rule.		and [06]
	b)	Why are symmetrical weights and weights with no discrete Hopfield network?	-	nt in [06]
Q4	a)	What is perceptron? Explain perceptron learning rule alg	orithm in detail.	[06]
	b)	Define Hamming distance. Explain the usefulness of artificial neural network based application with an example.	_	any [06]
Q5	a)	Differentiate a fuzzy set and crisp set based on their prop		[06]
	b)	Define Fuzzification. Explain any one of the fuzzification	n scheme with an exampl	

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- Q6 a) State the basic principle of Sugeno inference technique with an example. [06]
 - Explain the significance of fuzzy t-norm and t-conorm operators with an example.

[06]

- Q7 a) Explain the concept of fuzzy uncertainty and fuzzy logic with suitable example. [06]
 - b) Draw and explain fuzzy-neuro system with neat block diagram and suitable example.
- Q8 Draw and explain the various steps required to implement genetic algorithm with the help of block diagram. Discuss each of them in detail. [12]

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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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