## B. Tech. Sem - VIII (Electronics) (2014 COURSE) (CBCS) : SUMMER - 2019

## SUBJECT: ELECTIVE – II : FUZZY LOGIC AND NEURAL NETWORK

Day Date	:	Thursday Time: 02.30 PM TO 05.30 P 30/05/2019 S-2019-2907 Max Marks: 60		М	
N.B.:	1) 2) 3) 4)	All Questions are <b>COMPULSORY</b> . Figures to the right indicate <b>FULL</b> marks. Draw neat diagram <b>WHENEVER</b> necessary. Assume suitable data, if necessary.			
Q.1		Define continuo their properties.		s. Write fuzzy set operations and	(10)
			OR		
Q.1		Explain Max-Min composition and Max product composition of Fuzzy Relation.			(10)
Q.2		i) Max-memb ii) Centroid me	<u>=</u>	ods:	(10)
OR					
Q.2		Illustrate Tsukar	moto Fuzzy model and Suge	eno fuzzy model.	(10)
Q.3		Construct Aircraft landing control problem based on FLC.  OR		(10)	
Q.3		Draw the block diagram of Fuzzy logic controller. From design Engineer point of view, write assumptions in Fuzzy control system design.		(10)	
Q.4		Define bias, wei	ghts and thresholds in ANN  OR		(10)
Q.4		Critically anal reinforcement le		, unsupervised learning and	(10)
Q.5		Summarize RBI	N design steps.		(10)
Q.5		Construct the application of Multilayer Perceptron for classification and regression.			(10)
Q.6		Draw ANFIS architecture. Design one application based on ANFIS.  OR		(10)	
Q.6		Elucidate Hybrid learning algorithm. Write all steps.			(10)

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