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## MID SEMESTER EXAMINATION- March, 2019

## EP 420 Fuzzy Logic and Neural Networks

Time: 1:30 Hours  Note: Answer all FIVE questions.  Assume suitable missing data, if any	
Note: Answer all <i>FIVE</i> questions.  Assume suitable missing data, if any.	
Assume suitable missing data, it say	
in which this is	
(a) Define fuzzy logic and name few consumer products in which fuzzy  1. (a) The fuzzy logic and name few consumer products in which fuzzy  1.5	,
te atropice is USAC	
(b) Explain defuzzification and methods of defuzzification.	
4.7	
the distriction variables with example.	
<ul><li>(a) Define classical set and iniquisite variables</li><li>(b) Differentiate fuzzy set from classical set and explain the properties of both</li></ul>	
fuzzy and classical sets.	
3. (a) Using your own institution and your own definitions of the universe of	
3. (a) Using your own institution and your discourse, plot fuzzy membership functions for the following variables  3. (a) Using your own institution and your own instituti	
(i) Age of people	
(ii) Very Young.	
(iii) Young.	
(iv) Middle-aged.	•
(v) old.	
(b) Distinguish between the feed forward and feedback fledral	)
Compare their input-output mapping.	
4. (a) Define Artificial Neural Network and enlist the various phases of neural	2
network.	2
(b) Explain Recurrent and Neural network.	
	2
5. (a) Compare and contrast a biological neuron and an artificial neuron.	2
a supervised and UII-Supervised and UII-Supervised	. 2
<ul><li>(b) Distinguish between supervised and all and the properties of the control of the cont</li></ul>	,