## MEIC-201

## M.E./M.Tech., II Semester

Examination, May 2018

## Fuzzy Maths And Application to Controllers

Time: Three Hours

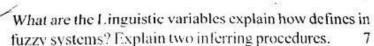
Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

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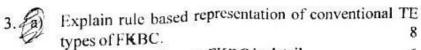
Explain the Difference between Fuzzy set theory and classical set theory. Write the operations on fuzzy sets.





Explain Defuzzification methods in detail.

What do you understand by Fuzzy rule based system explain with example.



b) Discuss about Sugeno FKBC in detail.



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Explain neural network architecture based on their 'synaptic interconnections, 7

Differentiate single and multiple input neuron network architectures.

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	5. Exp	lain about Back Propagation Neural NETW	ORKS. 14
	(6. a)	What are the association Learning rules be	riefly explain? 8
	(6)	Discuss about self organizing networks.	6
RGPVonline.com	7. (a)	Prove Demorgan's laws of Fuzzy sets.	7
nline.c	b)	Derive involution law of Fuzzy sets.	7
m	8. Exp	plain the following terms in detail	(4+3+3+4)
	(a)	Membership Functions	
	b)	Perceptrons	
	c)	Hidden Layers	
	' d)	Fuzzy IF then statements	

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