Q.P. C	ode:	16EE7503	R16
Reg.	No:		
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR			
M.Tech I Year I Semester (R16) Regular Examinations January 2017 SOFT COMPUTING TECHNIQUES			
		(Control Systems)	
Time: 1	bou	(For Students admitted in 2016 only)	o. 60
(Answer all Five Units 5 X 12 =60 Marks)			
Q.1	a.	Explain about biological neuron	6M
	b.	Explain about the applications of artificial neural networks	6M
		OR	
Q.2	а.	Explain about the McCulloch-Pitts neuron model.	6M
	b.	Discuss about the supervised learning strategy	6M
Q.3	a.	Explain about the back propagation network.	6M
	b.	Explain about back propagation learning.	6M
		OR	
Q.4		Explain about the bidirectional associative memory	12M
Q.5		UNIT-III Explain crisp and fuzzy implication rules	12M
4.0		OR	12111
Q.6	a.	What are the properties of fuzzy sets?	6M
	b.	Explain about the cardinalities in fuzzy sets	6M
		UNIT-IV	
Q.7		Whatarethebasiccomponentsofafuzzylogicsystem?Explaineachofthe min detail	12M
		OR	
Q.8		Explain applications of fuzzy logic in control system with one	
			1210
Q.9	a.	Explain about the basic operators in genetic algorithms.	6M
	b.	Explain about the mutation operator.	6M
		OR	
Q.10		Explain different cross over operations performed in GA	12M
*** END ***			