SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(**AUTONOMOUS**)
M.Tech I Year I Semester Regular & Supplementary Examinations February 2018
NEURAL NETWORKS AND FUZZY LOGIC
(Power Electronics)

Time: 3 hours   Max. Marks: 60

(Answer all Five Units **5 X 12 =60** Marks)

UNIT-I

1	a	Explain about the Mc Culloch-Pitts neuron model	6M
	b	Explain about artificial neuron	6M

OR

2	a	Describe the applications of ANN.	6M
	b	What are the learning strategies for artificial neural networks?	6M

UNIT-II

3	a	Explain about the back propagation network.	6M
	b	Explain the architectural details and algorithm of "ADALINE" model	6M

OR

4		Explain computations in multi layer feed forward networks	12M

UNIT-III

5		Explain about the training algorithms for pattern association.	12M

OR

6	a	Write short notes on Hopfield networks.	6M
	b	Explain about the bidirectional associative memory.	6M

UNIT-IV

7	a	Explain about the operations of fuzzy sets.	6M
	b	Explain about the fuzzy relations	6M

OR

8		Explain decision making using fuzzy composition operations.	12M

UNIT-V

9		What is fuzzification? Explain about the defuzzification to crisp sets

OR

10	a	Explain about the fuzzy logic based unit commitment	6M
	b	Explain about the load flow studies.	6M

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