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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR
(AUTONOMOUS)**B.Tech IV Year II Semester Regular & Supplementary Examinations July-2021****SOFT COMPUTING TECHNIQUES**

(Electrical and Electronics Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 List out the applications of neural networks and Explain. L2 12M

OR

- 2 Explain types of activation function & Explain Neural dynamics. L2 12M

UNIT-II

- 3 a Explain how supervised learning happens in neural networks. L2 8M

- b Explain back propagation learning. L3 4M

OR

- 4 Explain the weight adjustment procedure in MLFFN using back propagation algorithm. L3 12M

UNIT-III

- 5 Briefly explain the working principle of Hopfield network. L2 12M

OR

- 6 Distinguish Auto associative & Hetero associative memories. L2 12M

UNIT-IV

- 7 a Explain Cartesian product on fuzzy sets. L2 6M

- b Discuss how fuzzy relations are formed based on Cartesian product. L3 6M

OR

- 8 Explain Composition operation performed on fuzzy relation with example. L1 12M

UNIT-V

- 9 Explain fuzzy rule based system in fuzzy logic. L3 12M

OR

- 10 Explain working Greg Viot's Fuzzy Cruise controller. L2 12M

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