

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech. III Year I Semester Regular & Supplementary Examinations February-2024
SOFT COMPUTING
(Common to CSE & CSM)

Time: 3 Hours**Max. Marks: 60**

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

UNIT-I

- 1 a Analyze Learning Techniques in ANN. CO1 L4 6M
b Infer the classifications of Artificial Neural Networks. CO1 L2 6M

OR

- 2 a Distinguish between Supervised Learning and Unsupervised Learning. CO1 L4 6M
b Describe the different activation functions in Neural Networks. CO1 L2 6M

UNIT-II

- 3 a Explain Hamming neural network with neat diagram. CO2 L2 8M
b Explain Max network with architecture. CO2 L2 4M

OR

- 4 a Discuss Bidirectional Associative Memory with neat architecture. CO2 L2 7M
b Analyze Auto Associative memory and Hetero Associative memory. CO2 L4 5M

UNIT-III

- 5 a Explain the various components of a FuzzyLogic System with neat block diagram. CO3 L2 8M
b Differentiate the fuzzy sets and classical sets. CO3 L4 4M

OR

- 6 a Discuss the various operations and properties on Classical Sets with simple examples. CO3 L2 6M
b List out the various operations and composition operations on Classical relations explain it. CO3 L1 6M

UNIT-IV

- 7 a List out the various operators in Genetic Algorithm. CO5 L1 4M
b Explain the Various Operators in Genetic Algorithm. CO5 L2 8M

OR

- 8 a Analyze Inversion and Deletion Operators in GA. CO5 L4 6M
b Describe the applications of genetic algorithm. CO5 L1 6M

UNIT-V

- 9 a Discuss in detail about Fuzzy – Genetic Hybrid System. CO6 L4 8M
b Identify the advantages and disadvantages of Fuzzy-Genetic hybrid systems. CO6 L1 4M

OR

- 10 a List out the applications of hybrid system. CO6 L4 4M
b Analyze the Auxiliary hybrid system with neat architecture. CO6 L2 8M

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