

Roll No.

Total No. of Pages : 01

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M.Tech. (CSE) (Sem.-2)

SOFT COMPUTING

Subject Code : MTCS-202-18

M.Code : 76056

Date of Examination : 11-05-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

1. a) Give the use of Artificial Neural Networks in Soft Computing.s
b) Discuss the constituents of soft computing.
2. Explain with help of example fuzzy decision making.
3. Describe in detail the working of fuzzy sets, fuzzy relations and fuzzy rules.
4. Differentiate between supervised learning NN, Unsupervised learning NN and Reinforcement learning.
5. Write the Back Propagation Algorithms. Discuss the convergence issues in the back propagation algorithms.
6. Explain in detail Adaptive Resonance Architecture and its components.
7. a) Define the crossover and mutation operator in Genetic Algorithms.
b) Explain the use of function and file for ANN and fuzzy logic in Python.
8. Write a note on recent trends in deep learning, neural networks and genetic algorithms.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.