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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (CSE Engg.) (2018 Batch) (Sem.–2) SOFT COMPUTING Subject Code : MTCS-202-18 M.Code : 76056

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES : 1.Attempt any FIVE questions out of EIGHT questions. 2.Each question carries TWELVE marks.

- Q1 a) What is soft computing? Give its applications with example.
 - b) What is the difference between computational intelligence and artificial intelligence?
- Q2 a) Discuss the basic concept of Fuzzy set theory.
 - b) Explain the Insertion, Union and Complement Fuzzy set operations.
- Q3 a) What is fuzzy reasoning in artificial intelligence?
 - b) Explain the Inference Mechanism in Fuzzy rule based system.
- Q4 a) Write the steps of training the Artificial Neural Networks.
 - b) Discuss recent advances in neural networks.
- Q5 a) How can a neural network be used for supervised learning?
 - b) Write a short note on Adaptive resonance architecture.
- Q6 a) Write the role of machine learning in knowledge acquisition.
 - b) Discuss the basic principle of Genetic Algorithm? How this method can be used in Machine Learning?
- Q7 a) Write a Python Program to find factorial of given number?
 - b) Give the steps of using MATLAB to find the solutions using mathematical notation.
- Q8 What is the role of Deep Learning in computer science? What are the prerequisites for starting out in Deep Learning?

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.

1 M-76056