

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

Ph.D Examination  
SOFT COMPUTING (CSE)  
M.Code : 78008

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT question.
2. Each question carry TWENTY marks.

- Q1 a) What is learning in Neural Networks? Differentiate between supervised and unsupervised learning methods.
- b) Write the types of Artificial Neural Networks and their applications.
- Q2 How back propagation is used to efficiently train artificial neural networks?
- Q3 a) Explain defuzzification method with suitable example.
- b) Define Fuzzy set. Give some operations on Fuzzy set.
- Q4 By taking an suitable example show the Fuzzy Arithmetic and Fuzzy Measures?
- Q5 Define the terms chromosome, fitness function, crossover and mutation as used in genetic algorithms with examples.
- Q6 a) List some advancements in Genetic Algorithms with examples.
- b) What is associative memory in neural network?
- Q7 Explain the classifications and advantages of Neuro-Fuzzy Hybrid Systems.
- Q8 Define following :
- a) Hybridization
- b) Limitation of perceptron networks

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.