

Roll No.

Total No. of Pages : 02

Total No. of Questions : 08

M.Tech.EL-II (2018 & Onwards) (Sem.-2)

**SOFT COMPUTING**

Subject Code : MTED-209

M.Code : 74275

Time : 3 Hrs.

Max. Marks : 100

**INSTRUCTIONS TO CANDIDATES :**

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

1. List the various characteristics of the following :
  - (a) Radial basis function network
  - (b) Defuzzification techniques
2. Explain the following concepts with suitable examples :
  - (a) Perceptron model
  - (b) Associative memories
3. Differentiate between the following :
  - (a) Supervised and Unsupervised learning
  - (b) In star and Out star learning rules
4. Write short notes on the following :
  - (a) Counter propagation networks
  - (b) Pattern recognition
5. Discuss the various application areas of the following :
  - (a) Fuzzy logic
  - (b) Unsupervised learning

6. Explain the various limitations of the following :
  - (a) Genetic algorithm
  - (b) Support vector machines
7. Discuss the implementation details of the following :
  - (a) Recurrent back propagation approach
  - (b) CMAC networks
8. Write the historical development stages of :
  - (a) Feature maps
  - (b) Support vector classifications

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