Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 01

Total No. of Questions : 08

Ph.D in Faculty of Engineering (CSE)
SOFT COMPUTING
M.Code : 77388

Time : 3 Hrs.   Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :
1. **Attempt any FIVE questions out of EIGHT question.**
2. **Each question carry TWENTY marks.**

1. a) Discuss the use of perceptron networks for supervised learning in neural networks?

   b) What is back propagation algorithm? How it is used in neural networks?

2. a) How does unsupervised learning work? Give example.

   b) Write the use of associative memory in neural networks.

3. Write the use of DEFUZZIFICATION of converting the fuzzy sets obtained by inference engine in Neural Networks.

4. Explain the rules of Fuzzy rule base system by taking an suitable example.

5. Discuss various selection methods in GA. Explain any one of them.

6. a) How fitness value is formulated in Genetic Algorithm?

   b) Show the use of Fuzzy set by taking an example.

7. Explain the classifications of Genetic Neuro-Hybrid Systems by taking an suitable example.

8. Define following :

   a) Embedded hybrid systems

   b) Limitation of Back Propagation Network

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.