M.Sc DEGREE EXAMINATION,APRIL 2019
I Year II Semester
Soft Computing

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. What is Fuzzy logic?
2. Mention Hebb rule.
3. What is Hop field net?
4. What is supervised learning?
5. What is Fuzzification?
6. Mention the rules for decomposition?
7. List the four methods of approximate reasoning.
8. List the properties of Lambda cut sets.
9. State the differences between traditional algorithm and genetic algorithm.
10. What is Holland classifier?
11. What is multilayer perceptron?
12. Define Back Propagation Method.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. What is a neural network? Mention its applications.
14. Write a note on RBF network.
15. Write the operations of classical sets.
16. Write a short note on Fuzzy Proposition.
17. Explain the Scheme Theorem.
18. Describe fuzzy inference systems.
19. Explain the properties of Fuzzy sets.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Describe in detail the McCulloch-Pitts model of neuron.
21. Explain adaptive linear neuron in Supervised Learning Network.
22. List and explain the various methods used for membership value assignment.
23. Explain in detail the different Defuzzification methods.
24. Write a detailed note on operators in Genetic algorithms.

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