

**M.Sc. DEGREE EXAMINATION, APRIL 2020**  
**I Year II Semester**  
**Soft Computing**

**Time : 3 Hours**

**Max.marks :75**

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

Answer any **TEN** questions

1. List out any two advantages of neural network
2. Define neuro fuzzy hybrid system
3. What is meant by perception?
4. List out the types of Bidirectional Associative memory.
5. Define Fuzzification
6. Mention any four methods of membership value assignment.
7. Define FIS
8. What is meant by Fuzzy logic?
9. Define Genetic Algorithm
10. What is meant by Holland classifier system?
11. What are the modes of Fuzzy Reasoning?
12. What is meant by Artificial Neural network?

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

Answer any **FIVE** questions

13. Write short notes on Hebb network
14. Discuss about Adaptive Linear neuron
15. Describe shortly about Fuzzy Relations
16. Write short notes on Formation of Rules
17. Compare Genetic algorithm and Traditional algorithm
18. Write short notes on Bucket Brigade algorithm.
19. Describe about Aggregation of rules.

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

Answer any **THREE** questions

20. Explain briefly about the models of ANN?
21. What is Back propagation Network? Explain about it.
22. Elaborate on fuzzy sets, its operations and properties
23. Explain about Fuzzy interference system and its types
24. Illustrate the working of Genetic Algorithm

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