THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P CSS3 E01B - INTRODUTION TO SOFT COMPUTING

(Computer Science)

(2019 Admission onwards)

Time : 3 Hours   Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Illustrate syntactic and descriptive approaches.

2. Explain Bayes Decision theory.

3. Explain minimum error rate classification.

4. Explain normal density.

5. Illustrate Neural model and network architectures.

6. Explain Operations on fuzzy sets.

7. Summarize various concepts in SVM.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Explain 2-category classification.

9. Describe decision surfaces.

10. Illustrate theoretical foundations of genetic algorithms.

11. Explain supervised Hebbian learning.

12. Explain hopfield network.

13. Describe fuzzy relations.

14. Explain the Fundamental concept of Evolutionary Computation.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Describe Genetic algorithm, genetic operators and parameters.

16. Explain associative learning.

17. Illustrate applications of fuzzy set.

18. Describe swarm intelligence.

(2 × 5 = 10 Weightage)

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