SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2025
(CBCSS-PG)

(Regular/Supplementary/Improvement)

CC19P CSS2 C09 - COMPUTATIONAL INTELLIGENCE
(Computer Science)

(2019 Admission onwards)

Time: 3 Hours   Maximum: 30 Weightage

Part-A

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

1. Expalin DFS.

2. Examine in brief constraint satisfaction problem.

3. Explain in brief instances and ISA relationships.

4. Explain in brief forward versus backward reasoning.

5. Discuss components of planning system.

6. Explain expert system shells.

7. Describe in brief genetic algorithm.

(4 × 2 = 8 Weightage)

Part-B

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

8. Discuss strategies of state space search.

9. Inspect Steepest Ascent Hill Climbing.

10. Analyze AO* algorithm.

11. Explain Knowledge representation issues.

12. Explain Resolution in predicate logic.

13. Demonstrate conceptual dependency.

14. Describe hopfield networks.

(4 × 3 = 12 Weightage)

Part-C

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

15. Interpret the state space search with example.

16. Inspect Best First Search with A* algorithm.

17. Illustrate alpha beta pruning.

18. Interpret various types of machine learning.

(2 × 5 = 10 Weightage)

****