23P261　　　　　　　　　(Pages: 2)　　　　　　　Name: ....

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SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024

(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. Describe DFS.

2. Examine in brief Steepest Ascent Hill Climbing.

3. Summarize the concept of instances and ISA relationships.

4. Describe in brief forward versus backward reasoning.

5. Discuss components of planning system.

6. Report expert system shells.

7. Describe Rote learning.

(4 × 2 = 8 Weightage)

Part-B

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

8. Discuss strategies of state space search.

9. Dissect A* algorithm.

10. Analyze constraint satisfaction problem.

11. Explain DFS in non-montonic reasoning.

12. Describe Resolution in propositional logic.

13. Demonstrate scripts.

14. Explain genetic algorithm.

(4 × 3 = 12 Weightage)

Part-C

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

15. Discuss the state space search with example.

16. Examine Best First Search with A* algorithm.

17. Illustrate alpha beta pruning.

18. Explain learning in neural networks.

(2 × 5 = 10 Weightage)

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