MAY 2022 **P/ID 17633/PCATF**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions

1. What is called Intelligence?
2. Write down the benefits of AI.
3. What are called redundant paths?
4. What is meant by Heuristic search?
5. How to do local search in continuous spaces?
6. Define forward pruning.
7. What are the limitations of game search?
8. What is called constraint propagation?
9. What is CSP?
10. Write a note on First order logic.
11. How to do Automated planning?
12. Write any two methods of handle uncertainty.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions

13. Explain Water jug problem.

14. Explain the risks in AI.

15. Briefly describe Iterative deepening search method.

16. Describe A* algorithm.

17. Explain simple Hill climbing algorithm.

18. Write short notes on prepositional logic.

19. Explain Baye's model.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Describe the history of AI.

21. Compare and contrast BFS vs DFS algorithm.

22. Explain AND – OR tree traversal.

23. Explain constraint satisfaction problem with an example.

24. Discuss the algorithms for classical planning.

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