

NOVEMBER 2023

**57703/CS21C/
MC43E**

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 1 = 10$ marks)

Answer any TEN questions.

1. What is Artificial Intelligence?
2. What is Rationality in AI?
3. Define Heuristics search.
4. What is meant by problem space?
5. Tell about DFS.
6. What is Game playing?
7. Define Frame.
8. Short note on simple fact.
9. Write the use of Decision Tree.
10. Define unification.
11. What is expert system?
12. What is knowledge acquisition?

PART B — ($5 \times 5 = 25$ marks)

Answer any FIVE questions.

13. Explain the AI Intelligent Agents.
14. Discuss about the problem Reduction.
15. Write about the A* Algorithm and its steps.
16. What is mapping? Explain.
17. Explain the Baye's probabilistic Interface.
18. What is Resolution? Explain.
19. What is machine learning? Explain.

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions.

20. Describe the problem solving agents.
21. Explain the Breadth First search techniques.
22. Illustrate the Mini-Max Algorithm for game playing.
23. Explain the issues of knowledge Representation.
24. Write about forward and Backward chaining.
25. Describe the structure of an expert system and its types.