

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**

**Regular End Semester Examination – Summer 2022**

**Course: B. Tech. Branch : Computer Science & Engineering**

**Semester : VI**

**Subject Code & Name: Artificial Intelligence BTCE603 (B)**

**Max Marks: 60**

**Date:20/08/2022**

**Duration: 3.45 Hr.**

**Instructions to the Students:**

1. All Questions are Compulsory.
2. Draw neat diagram wherever necessary.
3. Figures to right indicates full marks
4. Assume suitable data wherever necessary and mention it clearly

(Level/CO) Marks

**Q. 1 Solve Any Two of the following.**

- |  |              |           |
|--|--------------|-----------|
| A) What is AI? Explain the goal of AI.           | (Synthesis)  | <b>05</b> |
| B) Explain the advantage and disadvantage of AI. | (Remember)   | <b>05</b> |
| C) List the type of Agent and explain any one.   | (Understand) | <b>05</b> |

**Q.2 Solve Any Two of the following.**

- |   |              |           |
|---|--------------|-----------|
| A) Explain steps to solve problem Using AI. | (Understand) | <b>05</b> |
| B) Explain A* Graph Search with example.    | (Remember)   | <b>05</b> |
| C) Explain Depth First Search.              | (Understand) | <b>05</b> |

**Q. 3 Solve Any Two of the following.**

- |   |             |           |
|---|-------------|-----------|
| A) What is Constraints Satisfaction Problem explain with example.     | (Synthesis) | <b>05</b> |
| B) List the different types of local consistency and explain any one. | (Remember)  | <b>05</b> |
| C) Write a short note on Intelligent backtracking?                    | (Remember)  | <b>05</b> |

**Q.4 Solve Any Two of the following.**

- |  |              |           |
|--|--------------|-----------|
| A) Explain Game tree with example of Tic-Tac-Toe game. | (Remember)   | <b>05</b> |
| B) Write a short not on Non-deterministic games?       | (Understand) | <b>05</b> |
| C) Write a pseudo-code for Alpha-Beta Pruning.         | (Understand) | <b>05</b> |

**Q. 5 Solve Any Two of the following.**

- |  |             |           |
|--|-------------|-----------|
| A) Explain Knowledge-Based Agents in AI.               | (Synthesis) | <b>05</b> |
| B) Explain The Wumpus World in AI with its Properties. | (Remember)  | <b>05</b> |
| C) What is Propositional Logic explain with example.   | (Remember)  | <b>05</b> |

**Q. 6 Solve Any Two of the following.**

- |  |              |           |
|--|--------------|-----------|
| A) Explain Approximate Inference in Bayesian Networks in AI. | (Synthesis)  | <b>05</b> |
| B) What is Quantifying Uncertainty and explain it use in AI. | (Remember)   | <b>05</b> |
| C) Explain Representing Knowledge in an Uncertain Domain.    | (Understand) | <b>05</b> |

**\*\*\* End \*\*\***