

Code No: 157AM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, January/February - 2023

**ARTIFICIAL INTELLIGENCE**  
(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A**

(25 Marks)

- |      |  |     |
|------|--|-----|
| 1.a) | What is well defined problem?                            | [2] |
| b)   | Define search tree and write its properties.             | [3] |
| c)   | What is game tree?                                       | [2] |
| d)   | Explain evaluation function.                             | [3] |
| e)   | Define atomic and complex sentence in first order logic. | [2] |
| f)   | What is First order logic?                               | [3] |
| g)   | Define temporal constraints.                             | [2] |
| h)   | Explain classical planning.                              | [3] |
| i)   | Define over fitting.                                     | [2] |
| j)   | State Baye's rule.                                       | [3] |

**PART – B**

(50 Marks)

- |           |   |       |
|-----------|---|-------|
| 2.a)      | What is simple problem solving agent? Explain it briefly.               |       |
| b)        | Discuss Greedy best first search algorithm.                             | [5+5] |
| <b>OR</b> |   |       |
| 3.a)      | What is bidirectional search ? Explain in detail.                       |       |
| b)        | Explain Breadth First Search algorithm with an example.                 | [5+5] |
| 4.a)      | Elaborate on knowledge based agents.                                    |       |
| b)        | Explain CSP problem for job scheduling.                                 | [5+5] |
| <b>OR</b> |   |       |
| 5.a)      | What is Resolution? Explain Resolution algorithm for Proposition logic. |       |
| b)        | Explain backtracking searching technique.                               | [5+5] |
| 6.a)      | Explain quantifier estimates and its types.                             |       |
| b)        | Analyze the steps in knowledge-engineering process.                     | [5+5] |
| <b>OR</b> |   |       |
| 7.a)      | Explain reasoning with default information.                             |       |
| b)        | Write simple forward chaining algorithm.                                | [5+5] |

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**RJ Shavelson**



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