

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] |
| OR | | |
| 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] |
| OR | | |
| 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] |
| OR | | |
| 7. a) | Explain reasoning with default information. | |
| b) | Write simple forward chaining algorithm. | [5+5] |

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