

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] |

Mtech Question Papers Jntu

Sebastian Brünink



Mtech Question Papers Jntu:

Mtech Question Papers Jntu Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mtech Question Papers Jntu**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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