

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

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