

- (e) Expert Systems
- (f) Identification Trees

SECTION - A

- 2. (a) What is Artificial Intelligence ? State examples of AI problems. 8
- (b) Differentiate the DFS and BFS with merits and demerits. 7
- 3. (a) Explain the Best-First-Search Procedure with example. 8
- (b) Explain AO* algorithm with an example. 7

SECTION - B

- 4. Explain in detail Knowledge Representation Techniques and schemes. 15
- 5. State various issues knowledge representation in detail. 15

SECTION - C

- 6. Explain Probability and Bay's Theorem. 15
- 7. What is Partial-order Planning. explain in detail ? 15

SECTION - D

- 8. What are the Current trends in Artificial Intelligence. Elaborate ? 15
- 9. Explain the following types of learning : 15
 - (a) Learning by Induction,
 - (b) Rote Learning,
 - (c) Symbol Based Learning

Roll No.

3334

B. Tech. 6th Semester (CSE)

Examination – May, 2023

ARTIFICIAL INTELLIGENCE

Paper : PCC-CSE-304-G

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

*Note : Attempt **five** questions in all, selecting at least **one** question from each Section. Question No. 1 is **compulsory**. All questions carry equal marks.*

1. Explain the following Questions : 6 × 2.5 = 15
- (a) Uninformed Search
 - (b) Genetic Algorithm
 - (c) Dempster-Shafer Theory
 - (d) Explanation Based Learning

3334-2,600-(P-3)(Q-9)(23)

P. T. O.