Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (CSE) (Sem.-6)

ARTIFICIAL INTELLIGENCE

Subject Code: BTCS-602-18

M.Code: 79250

Date of Examination: 06-06-23

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a. What do you mean by state space representation?
- b. What do you mean by policy iteration?
- c. What is decision tree?
- d. What is heuristic search
- e. What is rule based learning?
- f. What do you mean by open list?
- g. Define temporal difference learning.
- h. Define random search?
- i. Role of AI in today's era.
- i. What is an expert system?

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SECTION-B

- 2. Explain Depth First Search, in detail.
- 3. What do you mean by AI? Explain contribution of AI in various fields.
- 4. Explain hidden Markov model in detail.
- 5. What do you mean by MDP? Explain.
- 6. Explain Knowledge based system in detail with suitable example.

SECTION-C

- 7. What are the characteristics of AI problem? Explain with the help of example.
- 8. What do you mean by Reinforcement Learning? Explain practical applications of RL.
- 9. Explain Beat First Search and Game Search, in detail with suitable examples.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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