Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (CSE / ECE / IT / ME) (Sem.-7)

ARTIFICIAL INTELLIGENCE

Subject Code: BTCS-602-18

M.Code: 90611

Date of Examination: 21-01-2023

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 is Decision Tree?
- b. What is Declarative Knowledge?
- c. What is rule based learning?
- d. Explain Fuzzy logic.
- e. What do you mean by Open list?
- f. Define Probability.
- g. Define temporal difference learning.
- h. What is state space?
- i. Role of AI in today's era?
- j. What do you mean by policy iteration?

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SECTION-B

- 2. Explain Knowledge based system in detail with suitable example.
- 3. Explain Depth First Search in detail.
- 4. Explain Bayesian Network with suitable example.
- 5. What do you mean by MDP? Explain.
- 6. Explain Passive reinforcement learning in detail.

SECTION-C

- 7. What are the characteristics of AI problem, explain with the help of example.
- 8. Explain adaptive dynamic programming and active reinforcement learning in detail with appropriate examples.
- 9. Explain Best 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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