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.

    j. What is an expert system?

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.