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AI Questions List:

--Shoeb Antule

Module 1

1. What is PEAS descriptor? Give PEAS descriptor for robot maid for cleaning the house.
2. Discuss different applications of AI.
3. Describe different categories of AI. (5 Marks)
4. What is planning in AI?
Discuss partial order planning and hierarchical planning in detail. (10 Marks)
5. Explain WUMPUS world environment giving its PEAS description.
Explain how percept sequence is generated.

Module 2

1. The structure of Agents, Types of Agents, Learning Agent.
2. All types of agents like Utility-Based Agent, Goal-Based Agent, with suitable block diagrams for each.

Module 4

1. What do you mean by forward chaining and backward chaining? Explain in detail in terms of Artificial Intelligence.
2. Illustrate forward-chaining and backward-chaining algorithm with suitable example. Can we write the previous answer for this question?
3. Explain various methods of knowledge representation in AI.
4. Explain propositional logic.
5. First Order Logic (FOL): Syntax and Semantics – give example.
6. Compare and contrast propositional logic and first order logic.
7. Explain steps involved in converting propositional logic statement into CNF with suitable example.
8. What do you understand by informed and uninformed search methods? Explain in detail with examples.
9. Define belief network. Describe the steps of constructing belief network.

Module 5

1. What is planning in AI and list types of planning and describe in detail partial order planning?
2. Conditional Planning

3. Planning with state space search, What do you mean by state-space representation? Explain with example the necessity of it. Is this question similar to this topic or it is from different topic?
4. (Image-based) Solve the Air cargo transport problem using Planning. It involves loading and unloading cargo onto and off of planes and flying it from place. Initial State is cargo 1 and plane 1 is at Mumbai airport, cargo 2 and plane 2 is at Delhi airport. Goal State is cargo 2 should be at Mumbai airport and cargo 1 should be at Delhi airport.
5. (Image-based) Design a planning problem using STRIP for Air cargo transport. It involves loading and unloading cargo onto and off of planes and flying it from place. Initial State: At SFO airport, Cargo1, Plane1 and at JFK airport, Cargo2, Plane2 is present. Goal State: At SFO airport Cargo2 and at JFK airport Cargo1 is present.

Module 6

1. Introduction to NLP – Language models, Grammars, Parsing
Language models of Natural Language Processing
2. Robotics – Robots, Robot hardware, Problems Robotics can solve, and Application areas of AI in robotics
3. AI Applications in Healthcare, Retail, Banking
4. Define Supervised, Unsupervised, and Reinforcement learning with an example