

Set 1

Mention Turing Test.

Mention the difference of four basic types of agents in order of increasing generality.

What is Problem Solving Agent?

Set 2

✓ Mention Total Turing Test.

✓ Mention the difference between deterministic, non-deterministic and stochastic environment.

Formulate Romania problem as a Problem Solving Agent. ✓

Set 3

- Q1, Mention different dimensions of definitions of AI.
- Q2, Mention the difference between fully observable, effectively fully observable, partially observable and unobservable environment.
- Q3, Formally define *Problem* in Problem Solving Task.

Set 4

- 17 Which AI definitions are linked to the computer fields Cognitive Science and Logic.
- 27 Define PEAS description and mention values for Taxi Driving agent.
- 37 How to solve Problem Solving by Searching?

Set 5

How can we trace a human mind?

Define Rational agent. How is it different from perfection?

Formally define the *The Vacuum World Problem*.

Set 6

What are the capabilities required to pass the Turing test and Total Turing test?

How to calculate the performance of an agent?

What are Toy Problem and Real Problem? Give example.

Set 7

Which of the older disciplines contribute to the foundation for artificial intelligence?

Define the Vacuum-cleaner world.

What are the Properties of search strategies? Give their values for BFS Algorithm.

Set 8

Try to answer any one the following questions related to AI from the Philosophy domain.

- a. Can formal rules be used to draw valid conclusions?
- b. How does the mental mind arise from the physical brain?

Draw the block diagram of the Agent-Environment interaction.

Mention Uniform Cost Search and its difference from the Breadth First Search.

Set 9

Try to answer any one of the following questions related to AI from the Economics domain.

- a. How should we make decisions so as to maximize payoff?
- b. How should we do this when others may not go along?

What are the Sensors and Actuators of Human agent?

What will happen in the Depth-limited search when l is less than d and when l is greater than d ?

Set 10

Try to Answer any one of the following questions related to AI.

- How do brains process information?
- How do humans and animals think and act?
- How does language relate to thought?

What is an Agent?

What will happen in the Iterative Deepening DFS when l is too less and when l is too high?