

AI Quiz

* Indicates required question

Which of the following symbols in AI are logical symbols?

- ☐ Negation
- ☐ Conjunction
- ☐ Implication
- ☒ All of the above

Clear selection

Which of the following is a core goal of Artificial Intelligence?

- ☐ To solve artificial problems
- ☐ To extract scientific causes
- ☐ To explain various sorts of intelligence
- ☒ To solve real-world problems

Clear selection

How many types of searching techniques are available in AI?

- ☒ 2
- ☐ 3
- ☐ 4
- ☐ 5

Clear selection

Which of the following are heuristic search algorithms?

- ☐ Best First Search Algorithm
- ☐ A* Search Algorithm
- ☒ Both A and B
- ☐ None of the above

Clear selection

Which search algorithm explores the shallowest nodes first?

- ☐ Depth-first search
- ☒ Breadth-first search
- ☐ Bidirectional search
- ☐ A* search

Clear selection

Consider the given information and create a graph. How many minimum colors are needed to solve using Map Coloring Problem?

Input: $V = 4$, edges = $[[0, 1], [1, 3], [2, 3], [3, 0], [0, 2]]$

- ☐ 2
- ☒ 3
- ☐ 4
- ☐ None of the above

Clear selection

What is state space in AI?

- ☒ Collection of all the problem states.
- ☐ A specific problem states out of all problem states.
- ☐ Both A and B
- ☐ None

Clear selection

Which of the following is a major branch of Artificial Intelligence?

- ☐ Cyber forensics
- ☒ Machine Learning
- ☐ Full-Stack Development
- ☐ Network Design

Clear selection

What AI category includes self-driving cars that use past data to improve decisions?

- ☐ Reactive machines
- ☒ Limited memory
- ☐ Theory of mind
- ☐ Self-awareness

Clear selection

How does an AI agent perceive its environment?

- ☐ Actuators
- ☒ Sensors
- ☐ Effectors
- ☐ Program

Clear selection

Consider the following statements:

- P: Good mobile phones are not cheap.
- Q: Cheap mobile phones are not good.
- L: P implies Q
- M: Q implies P
- N: P is equivalent to Q

Which one of the following about L, M, and N is CORRECT?

- ☐ Only L is TRUE.
- ☐ Only M is TRUE.
- ☐ Only N is TRUE.
- ☒ L, M and N are TRUE.

Clear selection

Which of the following search method takes less memory space?

- ☒ DFS
- ☐ BFS
- ☐ Linear Search
- ☐ Optimal Search

Clear selection

Which of the following is an example of an AI application?

- ☐ Face recognition system
- ☐ Chatbots
- ☐ Autonomous spacecraft
- ☒ All of the above

Clear selection

The proposition symbols in AI are?

- ☒ True and False
- ☐ True, False and null
- ☐ True
- ☐ False

Clear selection

Which one of the following is not equivalent to $p \leftrightarrow q$?

- ☐ $(\neg p \vee q) \wedge (p \vee \neg q)$
- ☐ $(\neg p \vee q) \wedge (q \rightarrow p)$
- ☒ $(\neg p \wedge q) \vee (p \wedge \neg q)$
- ☐ $(\neg p \wedge \neg q) \vee (p \wedge q)$

Clear selection