

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 $p \leftrightarrow q$?

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

[Clear selection](#)