

Exam Questions

1. [MCQ] Which of the following is the primary objective of Artificial Intelligence (AI)?
 - To replace all human jobs with machines.
 - To enable machines to perform tasks that typically require human intelligence.
 - To create robots with physical bodies and human-like emotions.
 - To develop faster and more efficient computer hardware.

2. [MCQ] What is 'Narrow AI' (also known as Weak AI) characterized by?
 - Its ability to perform any intellectual task a human can.
 - Its focus on performing a single, specific task very well.
 - Its possession of consciousness and self-awareness.
 - Its exclusive use in scientific research, not commercial applications.

3. [MCQ] Which term describes a subset of AI that allows systems to learn from data without being explicitly programmed?
 - Robotics
 - Expert Systems
 - Machine Learning
 - Computer Graphics

4. [MCQ] Which of these is a common application area for Natural Language Processing (NLP) in AI?
 - Controlling robotic arms in manufacturing.
 - Predicting weather patterns based on satellite images.
 - Translating languages or understanding voice commands.
 - Generating realistic 3D models for video games.

5. [MCQ] Deep Learning is a specialized field within Machine Learning that primarily utilizes what type of architecture?
 - Decision Trees
 - Simple Linear Regression Models
 - Neural Networks with multiple layers
 - Rule-based expert systems

6. [MCQ] Which of the following scenarios best demonstrates the use of AI?
 - A calculator performing arithmetic operations.
 - A word processor correcting spelling based on a dictionary.
 - A GPS navigation system suggesting the fastest route based on real-time traffic data.
 - A simple website displaying static information.

7. [MCQ] A significant ethical concern associated with the widespread adoption of AI is:

The potential for AI systems to become too slow.
The possibility of job displacement due to automation.
The inability of AI to handle large datasets.
The high cost of electricity required to run AI systems.

8. [MCQ] What is the primary role of data in the training of modern AI models, particularly in Machine Learning?

Data provides the physical storage for the AI system's hardware.
Data is used by engineers to manually program every rule the AI follows.
Data allows the AI model to learn patterns and make predictions or decisions.
Data is only used for debugging purposes after the AI model is built.

9. [MCQ] Which AI subfield is concerned with enabling computers to 'see' and interpret visual information from images and videos?

Robotics
Computer Vision
Natural Language Generation (NLG)
Reinforcement Learning

10. [MCQ] What is the key difference between 'Weak AI' (ANI) and 'Strong AI' (AGI)?

Weak AI is theoretical, while Strong AI is already in widespread use.
Weak AI is designed for specific tasks, while Strong AI can perform any intellectual task a human can.
Weak AI operates offline, while Strong AI requires an internet connection.
Weak AI is powered by electricity, while Strong AI uses renewable energy.