Artificial Intelligence (AI) Multiple Choice Questions

1. What is Artificial Intelligence (AI)?

- ○ a) A technology that only performs repetitive tasks
- ○ b) A collection of technologies that allow computers to perform complex tasks like understanding language and making decisions
- ○ c) A system that requires explicit programming for every decision
- ○ d) A manual system for processing data

2. Which of the following is NOT a component of AI?

- ○ a) Natural Language Processing (NLP)
- ○ b) Computer Vision
- ○ c) Deep Learning
- ○ d) Manual Data Entry

3. What is the role of Machine Learning (ML) in AI?

- ○ a) To explicitly program computers for specific tasks
- ○ b) To enable computers to learn from data without explicit programming
- ○ c) To replace deep learning models
- ○ d) To manually process large datasets

4. Who is known as the "Father of Artificial Intelligence"?

- ○ a) Alan Turing
- ○ b) John McCarthy
- ○ c) Geoffrey Hinton
- ○ d) Andrew Ng

5. Which of the following is an example of AI?

- ○ a) Handwritten record-keeping
- ○ b) Signature identification
- ○ c) Manual language translation
- ○ d) Physical file storage

6. Which AI technique allows computers to interpret visual information like images and videos?

- ○ a) Deep Learning
- ○ b) Computer Vision
- ○ c) Natural Language Processing
- ○ d) Data Mining

7. Which agent type considers long-term benefits rather than just immediate rewards?

- ○ a) Simple reflex agent
- ○ b) Utility-based agent
- ○ c) Goal-based agent
- ○ d) Model-based reflex agent

8. Which of the following best describes ChatGPT as an agent?

- ○ a) A simple reflex agent
- ○ b) A model-based reflex agent
- ○ c) A utility-based agent
- ○ d) A goal-based agent

9. True/False Questions

- ☐ A simple reflex agent considers past percepts when making decisions.
- ☐ A goal-based agent must have a predefined goal to function properly.
- ☐ A stochastic environment has elements of randomness that affect decision-making.
- ☐ In a deterministic environment, the outcome of every action is predictable.
- ☐ A utility-based agent only focuses on reaching a goal and does not evaluate multiple outcomes.
- ☐ The PEAS framework is used to describe the components of intelligent agents.
- ☐ A partially observable environment gives the agent complete information about the state of the world.
- ☐ A learning agent continuously adapts and improves based on past experiences.

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