Multiple Choice Questions

**Q1.** What are AI agents?

*Topic: AI Agents | Difficulty: Medium*

a) Autonomous programs that can observe their environment, make decisions, and take actions to achieve specific goals without constant human supervision

b) Basic interfaces designed primarily to respond to user queries

c) Systems that rely on human prompts or intervention to complete tasks

d) AI tools that can only automate simple tasks

**Answer:** a

**Explanation:** AI agents are autonomous programs that can observe their environment, make decisions, and take actions to achieve specific goals without constant human supervision.

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**Q2.** What is the core technology behind AI agents?

*Topic: AI Agents | Difficulty: Medium*

a) Large language models (LLMs)

b) Basic machine learning algorithms

c) Simple reflex agents

d) Model-based reflex agents

**Answer:** a

**Explanation:** The core technology behind AI agents is large language models (LLMs).

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**Q3.** How do AI agents differ from chatbots?

*Topic: AI Agents | Difficulty: Hard*

a) AI agents are more sophisticated and can monitor data streams, automate complex workflows, and execute tasks independently

b) Chatbots can observe their environment and make decisions

c) AI agents rely on constant human supervision

d) There is no difference between AI agents and chatbots

**Answer:** a

**Explanation:** AI agents are more sophisticated than chatbots as they can monitor data streams, automate complex workflows, and execute tasks independently.

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**Q4.** What is cloud computing?

*Topic: Cloud Computing | Difficulty: Easy*

a) The on-demand availability of computing resources over the internet

b) The use of physical resources managed by individuals and businesses

c) The manual management of IT infrastructure by companies

d) The need for upfront infrastructure costs in accessing computing services

**Answer:** a

**Explanation:** Cloud computing is the on-demand availability of computing resources over the internet.

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**Q5.** What is a key advantage of cloud computing?

*Topic: Cloud Computing | Difficulty: Easy*

a) Accessing and storing information while managing physical devices

b) Relying on upfront infrastructure costs for compute and storage

c) Rapid adjustment of IT infrastructure

d) Limited accessibility and management of resources by IT teams

**Answer:** c

**Explanation:** A key advantage of cloud computing is the rapid adjustment of IT infrastructure without upfront costs.

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**Q6.** What service models are based on cloud computing?

*Topic: Cloud Computing | Difficulty: Medium*

a) Sharing of on-demand computing resources over the phone

b) Access to a virtual pool of shared resources over the internet

c) Direct physical access to on-premises servers

d) Using local computers for information storage

**Answer:** b

**Explanation:** Cloud computing service models are based on the concept of accessing a virtual pool of shared resources over the internet.

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**Q7.** What are AI agents commonly referred to as due to their core technology usage?

*Topic: AI Agents | Difficulty: Hard*

a) Machine learning agents

b) Large language models (LLMs)

c) Simple reflex agents

d) Model-based reflex agents

**Answer:** b

**Explanation:** AI agents are commonly referred to as Large Language Models (LLMs) due to their core technology usage.

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