

Information Systems and Emerging Technologies

Information Technology · Practice Test · 15 Questions

1. Which of the following is NOT one of the six components of an information system?

- A) People
- B) Hardware
- C) Procedures
- D) Finance

2. What is the primary difference between IT and IS?

- A) IT includes people, IS does not
- B) IS includes people and procedures, IT focuses on technology
- C) IT is broader than IS
- D) There is no difference

3. Which phase of the Design Council's double diamond involves testing solutions at a small scale?

- A) Discover
- B) Define
- C) Develop
- D) Deliver

4. Which ethical framework focuses on embodying positive character traits like courage and wisdom?

- A) Virtue ethics
- B) Utilitarianism
- C) Rights-based ethics
- D) Justice ethics

5. What is the relationship between AI, ML, and DL?

- A) DL is a subset of ML, and ML is a subset of AI
- B) AI is a subset of ML, and ML is a subset of DL
- C) They are three independent technologies
- D) AI and ML are the same

6. What does the 'superposition' property allow quantum computers to do?

- A) Use bits instead of qubits
- B) Exist in multiple states simultaneously
- C) Connect only to the internet
- D) Delete data permanently

7. Which service model provides a development environment without managing infrastructure?

- A) IaaS
- B) PaaS
- C) SaaS
- D) VM

8. What is the purpose of a hypervisor in virtual machines?

- A) To connect to the internet
- B) To create and manage VMs
- C) To encrypt data
- D) To replace hardware

9. Which technology uses a decentralized and distributed digital ledger?

- A) Blockchain
- B) Cloud computing
- C) AI
- D) IoT

10. What do IoT devices primarily do?

- A) Replace human workers entirely
- B) Collect and exchange data over the internet
- C) Run quantum algorithms
- D) Manage corporate finances

11. Which of the following is a key aspect of ergonomics?

- A) Workstation design
- B) Software coding
- C) Network security
- D) Financial forecasting

12. Which project management variant is part of the Agile methodology?

- A) Scrum
- B) COBIT
- C) ITIL
- D) SFIA

13. What is the main goal of HCI?

- A) To make computers faster
- B) To design systems that are usable and receptive to human needs
- C) To secure networks from hackers
- D) To automate all human decision-making

14. Which of these is a tangible benefit of an information system?

- A) Improved brand reputation
- B) Increased revenue
- C) Higher employee morale
- D) Better customer trust

15. What does the acronym 'TCO' stand for in a business case?

- A) Total Cost of Ownership
- B) Technical Computing Objective
- C) Time-based Cost Optimization
- D) Total Corporate Output