

**1. Which of the following is the formal definition of IoT according to the Oxford Dictionary (Jan 2020)?**

- A) A network of objects with sensors and software that communicate via the internet.
- B) The connection of devices within everyday objects via the internet, enabling them to share data.
- C) Direct communication between devices using wired or wireless channels.
- D) A digital twin simulating real-time sensor data.

**\*\*Answer:\*\* B) The connection of devices within everyday objects via the internet, enabling them to share data.**

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**2. What does the "4S rule" in IoT systems stand for? (Medium)\*\***

- A) Simple, Secure, Smart, Scalable
- B) Sensors, Software, Security, Speed
- C) Storage, Speed, Safety, Simulation
- D) Scalable, Stable, Synchronized, Secure

**\*\*Answer:\*\* A) Simple, Secure, Smart, Scalable**

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**3. Which IoT level involves a coordinator node collecting data from end nodes and sending it to the cloud? (Easy)\*\***

- A) Level-1
- B) Level-3
- C) Level-5
- D) Level-6

**\*\*Answer:\*\* C) Level-5**

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**4. What is a key difference between traditional networks and IoT in terms of content consumption? (Medium)\*\***

- A) IoT content is consumed by request, while traditional networks push information.
- B) IoT content is pushed and triggers actions, while traditional networks rely on requests.
- C) Traditional networks use explicit links, while IoT uses implicit operations.
- D) Traditional networks focus on action, while IoT answers questions.

**\*\*Answer:\*\* B) IoT content is pushed and triggers actions, while traditional networks rely on requests.**

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**5. Which of the following is NOT listed as an IoT application domain? (Easy)\*\***

- A) Environmental monitoring
- B) Intelligent traffic control systems
- C) Blockchain mining
- D) Smart hospitals

**\*\*Answer:\*\* C) Blockchain mining**

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**6. Which IoT component is responsible for communication using protocols like ZigBee or Bluetooth? (Easy)\*\***

- A) Sensors
- B) Actuators
- C) Controllers
- D) Communication protocols

**\*\*Answer:\*\* D) Communication protocols**

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**7. What characterizes IoT Level-3 systems? (Hard)\*\***

- A) Single node with local analysis and cloud-based storage.
- B) Data stored and analyzed in the cloud with computationally intensive requirements.
- C) Multiple nodes performing local analysis and cloud-based applications.
- D) Coordinator node managing end nodes and cloud communication.

**\*\*Answer:\*\* B) Data stored and analyzed in the cloud with computationally intensive requirements.**

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**8. Which concept refers to "direct communication between devices using any communications channel?" (Medium)\*\***

- A) Ambient Intelligence (AmI)
- B) Machine-to-Machine (M2M)
- C) Digital Twin
- D) Cloud Computing

**\*\*Answer:\*\* B) Machine-to-Machine (M2M)**

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**9. What is a key IoT characteristic mentioned in the text? (Medium)\*\***

- A) High human intervention during operation
- B) Short battery lifetime for most devices
- C) Minimal human intervention during operation
- D) Limited scalability

**\*\*Answer:\*\* C) Minimal human intervention during operation**

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**10. Which IoT application domain includes "patients surveillance" and "smart hospitals"? (Hard)\*\***

- A) Energy Management
- B) Healthcare
- C) Transportation
- D) Environmental Monitoring

**\*\*Answer:\*\* B) Healthcare**

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