

1. Which of the following is the correct IoT equation as defined in the text? (Easy)**

- A) Physical Object + Sensor + Cloud = IoT
- B) Physical Object + Controller, Sensor and Actuator + Internet = IoT
- C) Actuator + Processor + Network = IoT
- D) Sensor + Cloud Computing + Internet = IoT

****Answer:** B) Physical Object + Controller, Sensor and Actuator + Internet = IoT**

2. According to the Oxford Dictionary definition, what enables IoT devices to share data? (Easy)**

- A) Human interaction
- B) Integration of software and electronic components
- C) Connection via the internet
- D) Explicitly defined links

****Answer:** C) Connection via the internet**

3. Which IoT level involves a single node that stores data locally and performs analysis without cloud?

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

****Answer:** A) Level-1**

4. What is a key difference between traditional networks and IoT in terms of content consumption?

- A) Traditional networks use explicit links, while IoT uses operations.
- B) IoT content is consumed by request, while traditional networks push information.
- C) Traditional networks push information, while IoT content is consumed by request.
- D) IoT uses human-created content, while traditional networks use machine-created content.

****Answer:** A) Traditional networks use explicit links, while IoT uses operations.**

5. Which IoT application domain includes "patients surveillance" and "smart hospitals"? (Easy)**

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

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

6. The 4S rule for IoT systems emphasizes that they must be: (Medium)**

- A) Secure, Scalable, Sustainable, Smart
- B) Simple, Secure, Smart, Scalable
- C) Stable, Secure, Scalable, Sustainable
- D) Simple, Secure, Sustainable, Synchronized

****Answer:** B) Simple, Secure, Smart, Scalable**

7. Which IoT level is most suitable for wireless sensor networks with computationally intensive data processing? (Medium)**

- A) Level-3
- B) Level-5
- C) Level-6
- D) Level-4

****Answer:** B) Level-5**

8. What is the primary purpose of a "digital twin" in IoT? (Medium)**

- A) To replace physical systems entirely
- B) To simulate real-time sensor data and generate performance recommendations
- C) To encrypt data transmitted to the cloud
- D) To act as a backup for IoT device controllers

****Answer:** B) To simulate real-time sensor data and generate performance recommendations**

9. Which communication protocol is NOT mentioned in the text as part of IoT components? (Hard)**

- A) ZigBee
- B) 5G
- C) Bluetooth
- D) IPv6

****Answer:** B) 5G**

10. A factory uses IoT devices to monitor energy consumption and sends all data to the cloud for processing. Which IoT level is most suitable for this application? (Medium)**

- A) Level-2
- B) Level-3
- C) Level-4
- D) Level-6

****Answer:** B) Level-3**
