

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

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

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

2. According to the Oxford Dictionary (2022), what defines IoT? (Easy)**

- A) Direct communication between devices using wired channels
- B) A network of everyday objects connected via the internet to share data
- C) A system requiring constant human intervention
- D) A concept limited to industrial machinery

****Answer:** B) A network of everyday objects connected via the internet to share data**

3. Which of the following is NOT part of the IoT 4S rule? (Medium)**

- A) Simple
- B) Secure
- C) Scalable
- D) Speed

****Answer:** D) Speed**

4. What distinguishes an IoT Level-3 system from a Level-1 system? (Medium)**

- A) Level-3 uses local analysis, while Level-1 uses cloud analysis.
- B) Level-3 stores and analyzes data in the cloud, while Level-1 performs local analysis and storage.
- C) Level-3 requires human intervention, while Level-1 is autonomous.
- D) Level-3 uses multiple nodes, while Level-1 uses a single node.

****Answer:** B) Level-3 stores and analyzes data in the cloud, while Level-1 performs local analysis**

5. In IoT, who primarily creates content compared to traditional networks? (Hard)**

- A) Human
- B) Machine
- C) Both human and machine
- D) Cloud servers

****Answer:** B) Machine**

6. What is the primary purpose of a "Digital Twin" in IoT? (Hard)**

- A) To replace physical systems entirely
- B) To simulate real-time sensor data and generate performance recommendations
- C) To store historical data for compliance purposes
- D) To act as a backup for cloud servers

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

7. In IoT Level-5 systems, what is the role of the coordinator node? (Medium)**

- A) Perform local data analysis
- B) Collect data from end nodes and send it to the cloud
- C) Host the application locally
- D) Replace cloud-based storage

****Answer:** B) Collect data from end nodes and send it to the cloud**

8. Which communication protocol is explicitly mentioned as part of IoT components? (Easy)**

- A) HTTP
- B) FTP
- C) ZigBee
- D) SMTP

****Answer:** C) ZigBee**

9. Which characteristic is NOT associated with IoT devices? (Medium)**

- A) Minimal human intervention
- B) Long battery lifetime
- C) High computational power on all nodes
- D) Use of sensors and actuators

****Answer:** C) High computational power on all nodes**

10. In IoT Level-6 systems, where is data analyzed? (Hard)**

- A) Locally on end nodes
- B) On a coordinator node
- C) In the cloud
- D) On a centralized physical server

****Answer:** C) In the cloud**
