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# **Isaca**

## **IoT-Fundamentals**

### **ISACA IoT Fundamentals**



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### **Product Version**

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# Latest Version: 6.0

## Question: 1

What is the main function of actuators in an IoT system?

Response:

- A. Storing data
- B. Sending commands to the cloud
- C. Converting electrical signals into physical action
- D. Aggregating data

**Answer: C**

## Question: 2

Which IoT protocol is best suited for constrained devices with low power?

Response:

- A. CoAP
- B. HTTP
- C. SNMP
- D. SMTP

**Answer: A**

## Question: 3

Which IoT concept ensures that devices perform tasks autonomously?

Response:

- A. Automation
- B. Analytics
- C. Security
- D. Compliance

**Answer: A**

## Question: 4

In IoT, what is a “digital twin”?

Response:

- A. A software backup
- B. A real-time virtual representation of a physical object
- C. A duplicate IoT device
- D. A cloud storage solution

**Answer: B**

### Question: 5

Which of the following are examples of IoT operating systems?

(Select two)

Response:

- A. Contiki
- B. Fedora
- C. RIOT OS
- D. Ubuntu

**Answer: A,C**

### Question: 6

You need to connect a smart thermostat to a home automation system. Which configuration settings should you verify?

Response:

- A. Device firmware version
- B. Wi-Fi network credentials
- C. Cloud service subscription
- D. Battery health

**Answer: A,B**

### Question: 7

Which two protocols are widely used in IoT communication?

Response:

- A. FTP
- B. HTTP
- C. CoAP
- D. MQTT

**Answer: C,D**

### Question: 8

Which layer of the IoT architecture handles data aggregation?  
Response:

- A. Application layer
- B. Perception layer
- C. Network layer
- D. Middleware layer

**Answer: D**

### Question: 9

What are the key challenges in IoT security?  
(Select two)  
Response:

- A. High energy consumption
- B. Device heterogeneity
- C. Scalability
- D. Weak password practices

**Answer: B,D**

### Question: 10

What is a primary challenge when implementing IoT applications?  
Response:

- A. Excessive hardware requirements
- B. Lack of skilled personnel
- C. Limited energy efficiency
- D. Managing heterogeneous systems

**Answer: D**

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