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IoT-Fundamentals

ISACA IoT Fundamentals

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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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