

EC Council

112-58

EC-Council IoT Security Essentials (ISE)

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Question: 1

How do operating systems in IoT devices differ from those in traditional computing devices?

- A. IoT operating systems are designed to handle higher graphics processing
- B. IoT operating systems are typically more resource-intensive
- C. IoT operating systems are optimized for low power consumption and small footprint
- D. IoT operating systems do not support connectivity

Answer: C

Question: 2

In what way do microcontrollers differ from microprocessors in IoT applications?

- A. Microcontrollers are less energy-efficient
- B. Microcontrollers typically integrate a processor with memory and peripheral interfaces on a single chip
- C. Microprocessors are generally used in simpler devices
- D. Microcontrollers are not suitable for IoT devices

Answer: B

Question: 3

What are the primary benefits of integrating advanced IoT web communications into industrial applications?

- A. To decrease automation and data accuracy
- B. To provide minimal interaction between devices
- C. Advanced IoT web communications bring benefits such as enhanced data transfer speeds, improved scalability, and increased system reliability in industrial applications
- D. Advanced communications are typically avoided in industrial IoT to maintain traditional practices

Answer: C

Question: 4

What are common vulnerabilities in cloud computing that could affect IoT?

- A. Vulnerabilities include insecure APIs, data breaches, and inadequate access controls.
- B. Enhanced encryption methods that slow down data access.
- C. There are no known vulnerabilities in cloud computing.
- D. Cloud platforms automatically secure all stored IoT data effectively.

Answer: A

Question: 5

How does standardization of response processes benefit IoT incident handling?

- A. Standardization leads to confusion and inconsistency in responses.
- B. They increase the time needed to respond to incidents.
- C. Standardized processes are discouraged as they limit flexibility.
- D. It ensures a consistent, predictable, and effective approach to managing and mitigating incidents.

Answer: D

Question: 6

Which IoT sector is specifically tailored to improve the efficiency of urban environments?

- A. Smart Agriculture
- B. Smart Homes
- C. Industrial IoT
- D. Smart Cities

Answer: D

Question: 7

Why are regular security updates critical in IoT Security Engineering?

- A. They are not critical; once a device is deployed, it should not be altered.
- B. Updates tend to introduce more vulnerabilities than they fix.
- C. Regular security updates help to patch vulnerabilities, adapt to new threats, and improve system resilience.
- D. Regular updates are only necessary for consumer devices, not for IoT.

Answer: C

Question: 8

In the context of IoT, what does the integration of smart devices in agriculture help achieve?

- A. Decrease in crop yield
- B. Reduction in use of modern technology
- C. Increase in manual labor
- D. Optimization of resources like water and fertilizers

Answer: D

Question: 9

Which of the following is not a direct benefit of IoT in industries?

- A. Increased automation
- B. Enhanced data collection
- C. Reduced operational efficiency
- D. Improved resource management

Answer: C

Question: 10

Why is it important for IoT devices to use an operating system that supports modular updates?

- A. Modular updates are not important for IoT devices
- B. It allows for updates to be made in a more secure and efficient manner, addressing specific issues without needing a complete system overhaul
- C. It ensures that the device cannot be updated after deployment
- D. Modular updates increase the complexity of the system

Answer: B

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