ECCouncil

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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.

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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