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CWNP CWISA-103 Exam

Certified Wireless IoT Solutions Administrator

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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details

Topic 1	• Radio Frequency Communications: This section of the exam measures the skills of RF Engineers and focuses on the fundamental principles of radio frequency communications. It involves explaining RF wave characteristics such as frequency, wavelength, and amplitude, and understanding behaviors like amplification, attenuation, and free space path loss. The domain covers describing modulation techniques including ASK, FSK, PSK, and QAM, and explaining the capabilities of RF components like radios, antennas, and cabling. It also includes describing the use and capabilities of different RF bands in terms of communication ranges and power levels.
Topic 2	• Wireless Technologies: This section of the exam measures the skills of Wireless Architects and covers foundational knowledge of wireless IoT technologies and their applications. It includes maintaining awareness of emerging technologies through research, understanding common applications and their associated frequencies and protocols, and familiarity with key standards organizations like IEEE, IETF, and Wi-Fi Alliance. The domain also encompasses defining various wireless network types including WLAN, WPAN, and IoT implementations across industries, along with understanding the hardware and software components of IoT devices and gateways, covering processors, memory, radios, sensors, and operating systems.
Topic 3	• Planning Wireless Solutions: This section of the exam measures the skills of IoT Solutions Architects and encompasses the planning phase of wireless IoT solutions. It involves identifying system requirements, including use cases, capacity needs, security requirements, and integration needs, while considering constraints such as budgetary, technical, and regulatory limitations. The domain includes selecting appropriate wireless solutions based on requirements, planning for technical needs, including LAN • WAN networking and frequency coordination, and understanding the capabilities of common wireless IoT solutions like Bluetooth, Zigbee, and LoRaWAN, along with location services and methods.
Topic 4	• Implementing Wireless Solutions: This section of the exam measures the skills of Wireless Implementation Specialists and covers the practical implementation of wireless IoT solutions. It involves understanding key issues related to automation, integration, monitoring, and management, and using best practices in implementation, including pilot testing, configuration, installation, and documentation. The domain includes validating implementations through testing and troubleshooting, performing installation procedures including equipment mounting and connectivity configuration, and implementing security solutions covering authentication, authorization, and encryption. It also encompasses knowledge transfer practice, including staff training and solution documentation.
Topic 5	• Supporting Wireless Solutions: This section of the exam measures the skills of Wireless Support Engineers and focuses on the ongoing administration and support of wireless solutions across various vertical markets. It involves administering solutions in healthcare, industrial, smart cities, retail, and other environments while troubleshooting common problems including interference, configuration issues, and hardware malfunctions. The domain includes determining the best use of scripting and programming solutions for IoT implementations, understanding data structures and APIs, and comprehending networking and security protocols. It also covers understanding application architectures and their impact on wireless solutions, including single-tier and multi-tier architectures, database systems, and application servers.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q70-Q75):

NEW QUESTION # 70

You are implementing a smart office wireless solution for a small business. The business owner indicates that It is acceptable to use

consumer-targeted wireless devices. What is a common negative attribute of consumer- targeted smart home or smart office devices?

- A. They typically only support FHSS modulation schemes
- B. They usually stop working after twelve months
- C. They rarely support features required for small business deployment
- **D. They often operate only in the 2.4 GHz frequency band used by 802.11 devices**

Answer: D

Explanation:

* Consumer Smart Devices Limitation: Many consumer-oriented smart devices are designed for simplicity and cost-effectiveness, leading to reliance on the crowded 2.4 GHz band.

* Consequences:

* High Interference: Increased potential for interference from Wi-Fi and other 2.4 GHz devices.

* Limited scalability: Performance and reliability may degrade in busy wireless environments.

NEW QUESTION # 71

Which one of the following location tracking technologies is most energy efficient in typical implementations?

- A. GPS
- B. Cellular
- **C. BLE Beacons**
- D. Wi-Fi

Answer: C

Explanation:

BLE Beacon Power Efficiency: Bluetooth Low Energy (BLE) beacons are designed for low power consumption. Their primary function is to periodically broadcast short data packets (advertising their presence).

NEW QUESTION # 72

What process, used for security in wireless solutions, is defined as the encoding of information to prevent readability by unauthorized users?

- A. Authentication
- B. Access Control
- C. Authorization
- **D. Encryption**

Answer: D

Explanation:

* Encryption vs. Other Options:

* Access Control: Limits who can access data, but doesn't make it unreadable.

* Authentication: Validates user/device identity, but not focused on data confidentiality.

* Authorization: Determines the actions a user is allowed, separate from securing the data itself.

* How encryption works: Encryption uses algorithms and keys to turn plaintext into unreadable ciphertext. Only those with the correct key can decrypt it.

* Data in motion vs. data at rest: Encryption protects sensitive information both when transmitted over the wireless network and when stored on devices.

References:

Encryption standards and protocols: Resources on common wireless encryption types (WPA2, WPA3, TLS) and their implementation.

NEW QUESTION # 73

Among these choices, what is the most common reason administrators use scripting during the deployment of a wireless solution?

- A. To reduce configuration errors
- B. To increase the signal strength of the resulting wireless links
- C. To provide time for playing solitaire
- D. To enhance the capabilities of the resulting solution

Answer: A

Explanation:

* Automation for Consistency: Scripts eliminate the potential for human error during repetitive configuration tasks on multiple devices. This ensures uniformity across the wireless solution.

* Speed and Efficiency: Scripts can be much faster than manual configuration, particularly in large deployments.

* Other Benefits: While scripts might aid signal strength (e.g., optimizing settings) or enhance solution capabilities, their core value in configuration is reducing errors.

References:

Network Automation: Benefits of using scripts for configuration management.

Configuration Management Best Practices: Emphasize the importance of consistency and repeatability.

NEW QUESTION # 74

What best describes the area covered or connected by a WWAN?

- A. Region
- B. Campus
- C. In-building
- D. City

Answer: A

Explanation:

* WWAN (Wide-Area Wireless Network): WWANs provide connectivity over extensive geographic areas, typically covering regions or even entire countries.

* Cellular Technology: WWANs often rely on cellular networks (3G, 4G, 5G) offered by mobile carriers.

References

* WWAN: https://en.wikipedia.org/wiki/Wireless_wide_area_network

NEW QUESTION # 75

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