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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> 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.
Topic 2	<ul style="list-style-type: none"> 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 3	<ul style="list-style-type: none"> 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 4	<ul style="list-style-type: none"> 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 practices including staff training and solution documentation.
Topic 5	<ul style="list-style-type: none"> 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.

CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q10-Q15):

NEW QUESTION # 10

What consideration is found in PtMP systems that is not found in PtP systems?

- A. Airtime management
- B. SINR optimization
- C. Frequency selection
- D. Interference avoidance

Answer: A

Explanation:

* PtMP (Point-to-Multipoint): A single access point (AP) communicates with multiple client devices.

This means the AP needs to manage how the available airtime is shared among those clients.

* Airtime Fairness: Mechanisms are needed to ensure that:

* Each client gets a fair chance to communicate

* High-priority traffic isn't starved by low-priority traffic

* PtP (Point-to-Point): A dedicated link only has two devices, eliminating the need for complex airtime management.

* Considerations in Both: While interference, SINR, and frequency selection are important in both PtMP and PtP systems, the need for airtime management is unique to the multipoint scenario.

References:

Wireless Network Topologies (PtP vs. PtMP): Explanations of the differences in how communication is managed in each scenario.

TDMA (Time Division Multiple Access): A common airtime sharing method used in PtMP systems.

NEW QUESTION # 11

What statement best describes the difference between authentication and authorization?

- A. **Authentication proves identity and authorization determines access to specific resources**
- B. Authentication is not used in wireless solutions and authorization is used in wireless solutions
- C. Authentication ensures privacy and authorization ensures availability
- D. Authentication is used in wireless solutions and authorization is not

Answer: A

Explanation:

* Authentication: Verifying "who" the user or device is (e.g., via passwords, certificates).

* Authorization: Controlling "what" a user or device can do once authenticated (e.g., read-only vs. read/write permissions).

* Combined for Security: Both are essential. Authentication alone doesn't control access levels, and authorization without verification is meaningless.

References:

Identity and Access Management (IAM): Articles and resources outlining the core principles of authentication and authorization.

Cybersecurity Best Practices: Guides on securing systems will often emphasize the need for both authentication and authorization controls.

NEW QUESTION # 12

You must plan for encryption in a wireless solution deployment. What type of data should always be encrypted? (Choose the single best answer.)

- A. Sensitive data in memory
- B. Non-sensitive data at rest
- C. **Sensitive data in transmission**
- D. Non-sensitive data in archives

Answer: C

Explanation:

* Most Vulnerable In Transit: Sensitive data (passwords, health information, etc.) is most susceptible to interception while being sent over a wireless network. Encryption is crucial at this stage.

* Encryption at Rest and in Memory: While also important, these are often handled with different cryptographic techniques depending on the system.

References:

Wireless Security Protocols: Details on encryption standards like WPA2/WPA3, TLS that focus on protecting data during transmission.

NEW QUESTION # 13

You must ensure proper security controls are in place for a wireless solution. The solution allows for the use of groups to grant access to resources and capabilities. What is the term used to describe a situation where an individual is granted more access than required because of inclusion in a group?

- A. Improper grouping
- **B. Privilege creep**
- C. Improper delegation
- D. Privilege escalation

Answer: B

Explanation:

* Privilege Creep Defined: Gradual accumulation of excessive permissions over time, often due to users changing roles or access needs not being adjusted accordingly.

* Other Terms:

* Privilege Escalation: A malicious act of obtaining higher-than-authorized access.

* Improper Delegation/Grouping: Faulty permission assignment, but not the gradual accretion aspect.

References:

Principle of Least Privilege: Security best practice emphasizing the need to minimize access to only what's necessary.

Access Control Models: Discussions of how privilege creep can violate security principles.

NEW QUESTION # 14

How does OFDMA differ from OFDM?

- A. OFDMA offers greater range by using multiple channels at once
- **B. OFDMA allows multiple devices to transmit simultaneously on the same frequency**
- C. OFDMA uses multiple radios to achieve higher throughput
- D. Subcarriers of OFDMA can contain data destined for a different receiver

Answer: B

Explanation:

* OFDM vs. OFDMA:

* OFDM (Orthogonal Frequency-Division Multiplexing): Divides a channel into multiple subcarriers for data transmission.

* OFDMA (Orthogonal Frequency-Division Multiple Access): Extends OFDM by allowing multiple users to share subcarriers simultaneously, improving efficiency and spectral utilization.

References

* OFDM: https://en.wikipedia.org/wiki/Orthogonal_frequency-division_multiplexing

* OFDMA: https://en.wikipedia.org/wiki/Orthogonal_frequency-division_multiple_access

NEW QUESTION # 15

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