CWISA-103 Reliable Study Materials, CWISA-103 Valid Exam Objectives

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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	• 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	• 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 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,n 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,s including staff training and solution documentation.
Topic 5	• 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.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q23-Q28):

NEW QUESTION # 23
As an RF signal propagates it becomes weaker at any given measurement point as it gets farther away from the transmitter. What concept is described?

- A. Beamwidth
- B. RF latency
- C. Free Space Path Loss
- D. Diffraction

Answer: C

Explanation:
Free Space Path Loss (FSPL): Describes how a radio signal weakens as it travels through open space, even without obstacles. It's caused by the signal spreading out, resulting in decreased power density at the receiver.
Calculation: FSPL depends on distance and frequency.

NEW QUESTION # 24
When deploying devices in an indoor manufacturing environment, which IP rating is more likely to be required?

- A. IP38
- B. IP47
- C. IP66
- D. IP46

Answer: C

Explanation:
IP Ratings & Manufacturing: IP66 provides:
Dust-tight: (First '6') Complete protection against dust ingress.
Powerful Water Jets: (Second '6') Protection against strong water jets from any direction.
Harsh Manufacturing Environments: IP66 is common due to dust, dirt, and potential exposure to liquids during cleaning or spills.

NEW QUESTION # 25
What is the benefit of using SINR as opposed to SNR to reference signal quality at a receiver?

- A. SNR includes interference measurements that skew the results
- B. SNR excludes the noise floor, which skews the results
- C. SINR includes interference as well as the noise floor
- D. SINR excludes interference and only measures the noise floor

Answer: C

Explanation:
SINR vs. SNR:
SNR (Signal-to-Noise Ratio): Measures the power of the desired signal relative to background noise.
SINR (Signal-to-Interference-plus-Noise Ratio): Considers both background noise and interference from other signals operating on the same frequency.
Practical Importance: SINR is a more realistic indicator of real-world signal quality in wireless environments where interference is a significant factor.

NEW QUESTION # 26
What is the most important consideration when deciding whether to implement a wired or wireless solution?

- A. The availability of PoE
- B. Business and system requirements
- C. The applications being used
- D. The distance between nodes

Answer: B

Explanation:
Requirements Drive Decisions: The decision between wired or wireless must align with the solution's overall purpose, performance targets, and operational constraints.
Key Considerations:
Reliability: Does the application require guaranteed connectivity? (Wired may be favored).
Installation Cost: Can extensive cabling be done, or is it prohibitively expensive? (Wireless may be favored).
Flexibility and Scalability: Is node placement likely to change in the future? (Wireless may be favored).

NEW QUESTION # 27
What statement best describes the difference between authentication and authorization?

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

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 # 28
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