Prep CWISA-103 Guide - New CWISA-103 Test Answers

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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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.

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

NEW QUESTION # 10
What metric is used to express a relative increase or decrease in signal strength?

- A. dBm
- B. dB
- C. mW
- D. W

Answer: B

Explanation:
Decibel (dB): A logarithmic unit expressing ratios of power or signal strength. It's used in RF contexts due to the wide range of signal levels encountered.
Examples:
dBm: Decibels relative to one milliwatt (power measurement).
dBi: Decibels relative to an isotropic antenna (antenna gain).

NEW QUESTION # 11
What is the primary difference between LoRa and LoRaWAN

- A. LoRa is the modulation method (using CSS modulation at the Physical Layer) and LoRaWAN is the MAC sub-layer of the Data Link layer
- B. LoRa is used for communicating across the Internet and LoRaWAN is used only on the local link
- C. LoRa uses RF and LoRaWAN uses light-based communications
- D. LoRa is the Physical Layer and LoRaWAN is the Transport Layer

Answer: A

Explanation:
* LoRa: This refers to the underlying radio modulation technique using Chirp Spread Spectrum (CSS). It defines how data is physically encoded onto the wireless signal.
* LoRaWAN: This is the network protocol built on top of LoRa. It manages device communication, network topology, and aspects like security. It operates at the MAC sublayer of the Data Link layer (Layer 2) of the OSI model
* LoRa vs. LoRaWAN: Key takeaway is that LoRa is the physical layer technology, while LoRaWAN adds the networking layer for management.
References:
LoRa Modulation: Technical explanations of Chirp Spread Spectrum (CSS).
LoRaWAN Specification: Official documentation detailing the network architecture and MAC layer functions.
OSI Model: Descriptions of the Data Link layer and its role in networking.

NEW QUESTION # 12
What is the role of the ITU in wireless communications?

- A. Oversees communications regulatory agencies in each country
- B. Establishes wireless radiation exposure limits
- C. Defines international communications standards
- D. Coordinates the shared global use of the radio spectrum

Answer: D

Explanation:
* ITU's Mandate: The International Telecommunication Union (ITU) is a specialized agency of the United Nations focused on global information and communication technologies (ICTs).
* Radio Spectrum Regulation: A core ITU function is allocating radio spectrum bands and satellite orbits to prevent harmful interference between different countries and technologies. This coordination is essential for the orderly use of wireless communications worldwide.
* Other ITU Roles: While involved in standard-setting and establishing best practices, options A and D are less precise than the ITU's spectrum coordination focus.
References:
ITU Website: (https://www.itu.int/en/) Outlines its activities and governance of radio spectrum.
ITU Radio Regulations: The international treaty governing the use of the radio-frequency spectrum.

NEW QUESTION # 13
What advantage is provided by using an NTP server within a wireless solution architecture?

- A. It provides for semi-automatic IP addressing in wireless sensor networks
- B. It provides for name resolution for older network devices
- C. It ensures uniform, synchronized time among devices
- D. It ensures security through AES encryption

Answer: C

Explanation:
Importance of Time Sync in IoT: Coordinated actions, accurate data analysis, and event logging in wireless IoT solutions often rely on devices having a shared time reference.
NTP's Role: Network Time Protocol (NTP) enables devices to synchronize their clocks against a reliable time source (NTP server),

ensuring consistency across the network.

NEW QUESTION # 14

What part(s) of the OSI network model does the IETF primarily focus on for the development of standards?

- A. All layers
- B. Network Layer and above
- C. Data Link Layer
- D. Physical Layerand above

Answer: B

Explanation:
* IETF's Focus: The Internet Engineering Task Force (IETF) primarily develops and standardizes internet protocols operating at the Network Layer (Layer 3) and above in the OSI model.
* Key Protocols: Some prominent IETF-developed protocols include:
* IP (Internet Protocol): Foundation of internet addressing and routing.
* TCP (Transmission Control Protocol): Reliable, connection-oriented data transport.
* UDP (User Datagram Protocol): Connectionless, best-effort data transport.
* DNS (Domain Name System): Translates domain names into IP addresses.
* HTTP (Hypertext Transfer Protocol): Web communication.
References
* IETF Website: https://www.ietf.org/
* OSI Model: https://en.wikipedia.org/wiki/OSI_model

NEW QUESTION # 15

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