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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"> 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 3	<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 4	<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.
Topic 5	<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.

CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q41-Q46):

NEW QUESTION # 41

Within what development environment is XAML most commonly used?

- A. .NET
- B. PHP
- C. R
- D. Python

Answer: A

Explanation:

- * XAML and .NET: XAML (eXtensible Application Markup Language) is primarily used within the .NET framework for defining user interfaces. Specifically, technologies like:
 - * WPF (Windows Presentation Foundation): Desktop application UIs
 - * Xamarin: Mobile app UIs
 - * XAML in Other Frameworks: While some limited adaptation exists, its core use is tightly coupled with .NET technologies.

References:

XAML Overview (Microsoft Docs): Introductions to XAML emphasizing its use in .NET applications.

WPF Documentation: Tutorials and references specifically mentioning XAML's role in Windows desktop development.

NEW QUESTION # 42

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

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

Answer: B

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.

NEW QUESTION # 43

In a wireless link, as the signal strength decreases, what else may decrease?

- A. Interference
- B. Transmission speeds
- C. Noise
- D. Latency

Answer: B

Explanation:

* Signal Strength and Data Rate: In wireless links, weaker signal strength often directly correlates to reduced transmission speeds. Modern wireless technologies use adaptive modulation and coding, sacrificing speed for reliability when signals become weaker.

* Noise and Interference: While these can impact performance, they don't inherently decrease simply because signal strength drops.

* Latency: Latency can be affected by poor signal, but its primary drivers are distance and network congestion.

References:

Wireless Signal Strength vs. Speed: Articles explaining the relationship and how adaptive modulation works.

Modulation and Coding Schemes (MCS): Technical descriptions of how Wi-Fi and other wireless technologies adjust speeds based on signal quality.

NEW QUESTION # 44

What is the primary difference between LoRa and LoRaWAN

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

Answer: D

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 # 45

What is most often used to track livestock on large farms and identify each animal individually?

- A. RFID tags
- B. Photodiode sensors
- C. 802.11 wireless radios
- D. Thermistor sensors

Answer: A

Explanation:

RFID for Livestock: Radio Frequency Identification (RFID) tags are the most widely used technology for livestock tracking and individual identification on large farms.

Benefits:

Unique ID: Each RFID tag has a unique code.

Data Storage: Some tags store information about the animal.

Durability: Tags withstand outdoor conditions.

Automated Reading: Tags can be scanned quickly.

NEW QUESTION # 46

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