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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	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	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	• 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 (Q34-Q39):

NEW QUESTION # 34

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

- A. Data Link Layer
- **B. Network Layer and above**
- C. All layers
- D. Physical Layer and 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 # 35

What metric is used to express a relative increase or decrease in signal strength?

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

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).

References

* Decibel: <https://en.wikipedia.org/wiki/Decibel>

NEW QUESTION # 36

What is the typical range of a wireless body area network (WBAN)?

- A. 10 centimeters
- B. 10 meters
- **C. 1-2 meters**
- D. 10 square meters

Answer: C

Explanation:

* WBAN Range: Wireless Body Area Networks (WBANs) specialize in short-range communication around the human body.

Typical ranges fall within 1-2 meters.

* Purpose: This range is designed to:

* Connect sensors monitoring health metrics.

* Transmit data to a central coordinator device (e.g., smartphone).

* Minimize interference potential with other wireless networks.

References

* WBAN Overview: https://en.wikipedia.org/wiki/Body_area_network

* WBAN Research Paper (Check Range Discussion): <https://www.mdpi.com/2224-2708/11/4/67>

NEW QUESTION # 37

You have implemented a wireless mesh network. All mesh nodes are properly configured for participation in the same mesh network. Several of the mesh nodes are unable to connect to other mesh nodes. What action may provide a solution to this problem?

- A. Change the security settings on the faulty mesh nodes
- B. Change the output power settings only on the faulty mesh nodes
- **C. Move the faulty mesh nodes to provide for better signal strength**
- D. Place the faulty mesh nodes in their own mesh network

Answer: C

Explanation:

* Mesh Connectivity Depends on Signal: Mesh nodes relay data for each other. Weak signal strength between nodes can disrupt connectivity throughout the network.

- * Troubleshooting Signal Issues: Physically relocating affected nodes can improve their ability to form stable connections with other nodes in the mesh.
- * Why Other Options May Not Help:
- * Separate Mesh: Splits the network, not solving the root connectivity issue
- * Output Power: May help marginally, but significant improvement is typically achieved through repositioning.
- * Security Settings: Unlikely to cause connectivity issues between properly configured nodes in the same mesh.

References:

Wireless Mesh Network Troubleshooting: Guides addressing signal strength and coverage concerns.

RF Site Survey Tools: Resources on software that can help visualize signal strength and aid in node placement.

NEW QUESTION # 38

Within what development environment is XAML most commonly used?

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

Answer: D

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 # 39

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