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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• 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	• 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, 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	• 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 (Q26-Q31):

NEW QUESTION # 26

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

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

Answer: A

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 # 27

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

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

Answer: B

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 # 28

You are creating documentation for a new wireless solution that is deployed in the organization. Why is it important to document APIs in use within the system?

- A. It allows future support to implement APIs that have not been used at the time of deployment.
- B. The APIs in use will not function without this documentation. The documentation is linked to the executable process of the APIs.
- C. If APIs are in use, it typically indicates that the vendor has not provided ideal support. Without documentation, you cannot prove this reality for a discount.
- **D. If APIs are in use, it typically indicates the use of custom scripts or application code. Future support will be easier when the APIs in use are documented.**

Answer: D

Explanation:

* Customization and Integrations: The presence of APIs often suggests a system is integrated with other platforms or has custom-built elements.

* Understanding Dependencies: Documenting used APIs helps clarify how different parts of the system interact and where potential issues might arise.

* Troubleshooting Efficiency: Detailed API documentation aids in resolving problems, allowing staff to assess interconnected systems effectively.

* Knowledge transfer: Future support teams won't have to reverse-engineer the system; documentation ensures smooth handover and understanding.

References:

Best practices API documentation: Guides on API documentation formats and the level of detail needed for maintenance. [Example: Swagger, OpenAPI Specification] (<https://swagger.io/>) Software Development Life Cycle (SDLC): Materials emphasizing the importance of documentation during development and support phases.

NEW QUESTION # 29

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. Free Space Path Loss**
- C. Diffraction
- D. RF latency

Answer: B

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.

References

* Free Space Path Loss: https://en.wikipedia.org/wiki/Free-space_path_loss

NEW QUESTION # 30

Key performance indicators and business requirements are most relevant to what operational activity for an existing wireless IoT solution?

- A. Implementation
- B. Removal
- C. Upgrading
- **D. Monitoring**

Answer: D

Explanation:

* KPI alignment: Key Performance Indicators (KPIs) define success metrics for the wireless IoT solution (e.g., uptime, device responsiveness, data accuracy). Continuous monitoring tracks performance against these KPIs.

* Meeting Business Needs: Monitoring ensures the solution delivers the intended value. Are response times fast enough? Are business processes supported effectively?

* Proactive maintenance: Monitoring can reveal performance issues before they become critical failures, allowing for proactive fixes.

* Optimization: Monitoring data over time helps identify areas for fine-tuning the solution to further align with business requirements.

References

* Wireless IoT monitoring tools: Vendor documentation or articles on specific tools and the KPIs they can track.

* ITIL (Information Technology Infrastructure Library): Frameworks emphasizing monitoring and continuous improvement.

NEW QUESTION # 31

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