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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.

Topic 2	<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 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 practice, 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"> • 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 (Q22-Q27):

NEW QUESTION # 22

What kind of PoE device can be used to power a non-PoE connected object assuming PoE power is provided on the Ethernet cable?

- A. PoE midspan injector
- B. PoE coupler
- C. PoE endspan switch
- **D. PoE splitter**

Answer: D

Explanation:

PoE Splitter: A PoE splitter separates power and data from a PoE-enabled Ethernet cable, allowing the powering of non-PoE devices.

NEW QUESTION # 23

What is the primary difference between LoRa and LoRaWAN

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

Answer: B

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.

NEW QUESTION # 24

As an RF signal propagates it becomes weaker as it gets farther away from the transmitter. What concept is described?

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

Answer: D

Explanation:

The concept described is Free Space Path Loss (FSPL). FSPL refers to the reduction in power density of an electromagnetic wave as it propagates through a clear, unobstructed path in free space. This weakening of the signal is due to the spreading of the wavefront as it travels, causing the power to be distributed over a larger area. The FSPL can be calculated using the Friis Transmission Equation, which shows that the received power decreases with the square of the distance from the transmitter. This concept is fundamental to understanding the behavior of RF signals in various communication systems, including wireless IoT, where the signal strength at the receiver is a critical factor for reliable data transmission.

NEW QUESTION # 25

You are defining capacity for a wireless solution. What is the most important factor related to each use case defined in relation to capacity?

- A. Protocols used on each device
- B. Total airtime utilization
- C. Support for mobility
- **D. Number of devices**

Answer: D

Explanation:

* Capacity Planning: The number of devices a wireless network can support is the primary determinant of its required capacity. This is because:

* Traffic Load: Each device generates network traffic that contributes to the overall load.

* Resource Sharing: Devices compete for airtime and bandwidth resources.

* Device Type: Requirements vary; a simple sensor has different needs than a video camera.

NEW QUESTION # 26

Which one of the following items has driven large serving 5- to 18-year-old students?

- A. Streaming music
- **B. Cloud-based applications**
- C. Online torrent sites
- D. Wearable body sensors

Answer: B

Explanation:

- * Cloud-based applications drive bandwidth usage: Applications like Google Suite, Microsoft 365, and video conferencing (Zoom, Teams) are commonly used in educational settings. These rely on cloud servers, requiring significant downloads and uploads.
- * Shift towards online learning: More schools are utilizing online learning platforms and resources, further increasing their dependence on cloud-based solutions.
- * Streaming, torrents, wearables less impactful: Streaming music and torrent sites can contribute, but their impact is generally less significant. Wearables in education are still niche despite their potential.

References

- * Trends in education technology: Reports on the rise of cloud-based learning platforms in schools.
- * [Example: Project Tomorrow Speak Up Research Project on Digital Learning] (<https://tomorrow.org/speakup/>)
- * Network usage studies in schools: Research on bandwidth usage patterns can confirm the primary drivers of traffic in educational settings.

NEW QUESTION # 27

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