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New CWNP CWISA-103 Test Review - Exam CWISA-103 Materials

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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 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	• 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 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	• 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 (Q38-Q43):

NEW QUESTION # 38
What factor severely limits the range of systems operating in the 60GHz band?

- A. Oxygen Fade
- B. Atmospheric Scattering
- C. Solar Radiation
- D. Rain Fade

Answer: A

Explanation:
60GHz Absorption: The 60GHz band experiences significant signal attenuation due to absorption by oxygen molecules in the

atmosphere. This severely restricts the usable range of wireless systems operating in this frequency.

NEW QUESTION # 39
How is ASK modulation different from FSK modulation?

- A. ASK does not work at high frequencies
- B. FSK is more sensitive to noise than ASK
- C. ASK can carry more data than FSK
- D. ASK varies the amplitude of the signal while FSK shifts its frequency

Answer: D

Explanation:
ASK (Amplitude Shift Keying): Digital data is represented by changes in the amplitude (strength) of a carrier wave.
FSK (Frequency Shift Keying): Digital data is represented by changes in the frequency of a carrier wave.

NEW QUESTION # 40
You are planning to outsource the implementation of a new LoRaWAN w of the service provider performing the implementation in all cases?

- A. Effective documentation
- B. Proof of concept
- C. Ongoing free support
- D. Ongoing paid support

Answer: A

Explanation:
* Outsourcing Knowledge Transfer: When outsourcing implementation, the service provider has firsthand knowledge of system setup and configuration. Clear documentation ensures this knowledge remains accessible to you after the project is complete.
* Ongoing Support: While paid/free support options influence long-term maintenance, they won't substitute missing documentation about the specific setup.
* Reducing Future Vendor Reliance: Detailed documentation helps mitigate over-reliance on the service provider for minor changes and troubleshooting, giving you more long-term autonomy.
* Proof of Concept: A POC typically happens before outsourcing, and focuses on validating the solution's feasibility, not ensuring smooth knowledge transfer thereafter.
References:
Service Level Agreements (SLAs): Documentation related to outsourced work may be defined as a deliverable within an SLA.
Knowledge Management Best Practices:

NEW QUESTION # 41
What is a common characteristic of Industrial IoT (IIoT) devices that is not a characteristic of all IoT devices?

- A. Use of standardized protocols
- B. Transmission of small amounts of data throughout the day
- C. Ruggedized devices constructed for operating in harsh environments
- D. Use of proprietary protocols

Answer: C

Explanation:
IIoT Environments: Industrial IoT (IIoT) often involves deployment in harsh environments (factories, plants, outdoor sites) with:
Extreme temperatures
Dust & Vibrations
Exposure to chemicals or moisture
Ruggedization: IIoT devices are designed to withstand these conditions, ensuring reliability and longevity.

NEW QUESTION # 42

What software is typically stored in ROM and is used to initialize a device?

- A. Firmware
- B. Application
- C. Service
- D. Container

Answer: A

Explanation:
* Firmware Definition: Firmware is a type of software embedded in hardware devices. It provides low- level instructions that control the basic operations and initialization of the device.
* ROM Storage: Firmware is typically stored in Read-Only Memory (ROM) or other forms of non- volatile memory, meaning it persists even when the device is powered off.
* Functions:
* Booting: Initiates the hardware and loads the operating system.
* Hardware Control: Provides an interface between the hardware and the operating system.
* BIOS: The firmware on PCs is often referred to as BIOS (Basic Input/Output System).
References
* Firmware Explanation: https://en.wikipedia.org/wiki/Firmware
* ROM: https://en.wikipedia.org/wiki/Read-only_memory

NEW QUESTION # 43

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