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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> 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 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.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q35-Q40):

NEW QUESTION # 35

What is defined as the weakening of signal amplitude as the signal passes through a medium?

- A. Diffraction
- B. Attenuation**
- C. Reflection
- D. Scattering

Answer: B

Explanation:

Attenuation: Describes the progressive loss of signal strength as it travels through a medium (like air, cables, walls). It's caused by factors like absorption, distance, and obstacles.

NEW QUESTION # 36

What is the most common difference between a single board computer (SBC) and a controller board?

- A. SBCs always have connectors for M2 devices and controller boards do not
- **B. SBCs typically have connectors for display and input devices while controller boards do not**
- C. Controller boards have I/O headers and SBCs do not
- D. Controller boards have more powerful processors than most SBCs

Answer: B

Explanation:

SBCs (Single Board Computers): Designed as standalone, small-form-factor computers. They often include:

Display Interfaces: HDMI, DisplayPort, etc.

Input Connections: USB for keyboards, mice, etc.

General Purpose Functionality: Can run a full operating system for wider applications.

Controller Boards: Focus on controlling specific hardware or systems.

Limited direct I/O: Limited connectors for displays/input devices.

Specialized tasks: Designed for embedded applications within larger systems.

NEW QUESTION # 37

What process, used for security in wireless solutions, is defined as the encoding of information to prevent readability by unauthorized users?

- A. Access Control
- B. Authentication
- **C. Encryption**
- D. Authorization

Answer: C

Explanation:

Access Control: Limits who can access data, but doesn't make it unreadable.

Authentication: Validates user/device identity, but not focused on data confidentiality.

Authorization: Determines the actions a user is allowed, separate from securing the data itself.

How encryption works: Encryption uses algorithms and keys to turn plaintext into unreadable ciphertext. Only those with the correct key can decrypt it.

Data in motion vs. data at rest: Encryption protects sensitive information both when transmitted over the wireless network and when stored on devices.

NEW QUESTION # 38

What provides the security (encryption) in an HTTPS connection?

- A. SNMPv3
- B. SSH
- C. IPSec
- **D. SSL/TLS**

Answer: D

Explanation:

* SSL/TLS Secures Web Traffic: HTTPS builds upon HTTP, adding the encryption provided by Secure Sockets Layer (SSL) or its successor, Transport Layer Security (TLS).

* Other Protocols Have Different Purposes:

* IPSec: Secures IP traffic at a network level, can be used alongside TLS.

* SNMPv3: Management protocol, offers security features, but not the primary mechanism in HTTPS.

* SSH: Secure remote shell, unrelated to web data encryption.

References:

TLS (and SSL): Explanations of their role in HTTPS and how they provide encryption for web communication.

HTTPS Overview: Materials showing how TLS fits into the overall HTTPS architecture.

NEW QUESTION # 39

You are troubleshooting a problem with a wireless solution that uses MQTT where the IoT end devices are not reporting to the MQTT server/broker. At what Layer of the OSI Model should troubleshooting begin when using a bottom-up method?

- A. Layer 1
- B. Layer 5
- C. Layer 4
- D. Layer 6

Answer: A

Explanation:

* Bottom-Up Troubleshooting: The OSI model provides a structured diagnostic approach. Starting at Layer 1 ensures basic physical connectivity issues are ruled out first.

* MQTT Relies on IP: MQTT operates at a higher layer of the OSI model, relying on TCP/IP (Layers 4 and 3) for communication. Problems at the physical layer will disrupt everything built upon it.

* Checking the Fundamentals: Before investigating complex application issues (MQTT), verify cables, link lights, Wi-Fi signal strength, etc.

References:

OSI Model: Descriptions of the seven layers, emphasizing the foundation provided by Layer 1 (Physical).

Network Troubleshooting Guides: Resources that outline common Layer 1 problems and their symptoms.

NEW QUESTION # 40

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