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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	WLAN Regulations and Standards: The topic discusses the roles of WLAN and networking industry organizations. It also addresses the concepts of various Physical Layer (PHY) solutions, spread spectrum technologies, and 802.11 WLAN functional concepts.
Topic 2	WLAN Protocols and Devices: It focuses on terminology related to the 802.11 MAC and PHY, the purpose of the three main 802.11 frame types, MAC frame format, and 802.11 channel access methods.

Topic 3	• Radio Frequency (RF) Technologies: This topic explains the basic features and behavior of RF. It also discusses applying the basic concepts of RF mathematics and measurement. Lastly, the topic covers RF signal characteristics and the functionality of RF antennas.
Topic 4	• RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.

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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q114-Q119):

NEW QUESTION # 114

Which one of the following 802.11 PHYs is more likely to be used in an industrial deployment but not likely to be used in standard office deployments?

- A. OFDM
- **B. S1G**
- C. VHT
- D. HT

Answer: B

Explanation:

S1G is one of the 802.11 PHYs that is more likely to be used in an industrial deployment but not likely to be used in standard office deployments. This is because S1G stands for Sub-1 GHz, which means it operates in the frequency bands below 1 GHz, such as 900 MHz and 868 MHz.

These bands offer better penetration and range than the higher frequency bands used by other 802.11 PHYs, such as 2.4 GHz and 5 GHz. This makes S1G suitable for industrial applications that require robust and reliable wireless communication in harsh environments, such as factories, warehouses, mines, and smart grids. S1G also supports low-power and low-data-rate devices, such as sensors, actuators, and meters, which are common in industrial Internet of Things (IoT) scenarios. VHT, OFDM, and HT are other 802.11 PHYs that are more commonly used in standard office deployments, as they offer higher data rates and capacity than S1G, but have lower range and penetration.

NEW QUESTION # 115

The center frequency of channel 1 in the 2.4 GHz band is 2.412 GHz (2412 MHz). What is the center frequency of channel 4?

- **A. 2.427**
- B. 2.422
- C. 2.417
- D. 2.413

Answer: A

Explanation:

The center frequency of channel 4 in the 2.4 GHz band is 2.427 GHz (2427 MHz). The center frequency of a channel is the midpoint of its frequency range, where the signal strength is highest and most concentrated.

The center frequency of channel 1 in the 2.4 GHz band is 2.412 GHz (2412 MHz), as given in the question.

The center frequency of each subsequent channel is obtained by adding 5 MHz to the previous channel's center frequency, since the channels are spaced 5 MHz apart from each other in this band. Therefore, to find the center frequency of channel 4, we need to add 15 MHz (5 MHz x 3) to the center frequency of channel 1:

$$2.412 \text{ GHz} + 0.015 \text{ GHz} = 2.427 \text{ GHz}$$

Alternatively, we can use a formula to calculate the center frequency of any channel in the 2.4 GHz band:

$$\text{Center frequency (GHz)} = 2.407 + (0.005 \times \text{Channel number})$$

Using this formula for channel 4, we get:

$$\text{Center frequency (GHz)} = 2.407 + (0.005 \times 4)$$

$$\text{Center frequency (GHz)} = 2.407 + 0.02$$

$$\text{Center frequency (GHz)} = 2.427$$
 References: 1, Chapter 3, page 85; 2, Section 3.2

NEW QUESTION # 116

You are a small business wireless network consultant and provide WLAN services for various companies. You receive a call from one of your customers stating that their laptop computers suddenly started experiencing much slower data transfers while connected to the WLAN. This company is located in a multi-tenant office building and the WLAN was designed to support laptops, tablets and mobile phones. What could cause a sudden change in performance for the laptop computers?

- A. The antennas in the laptops have been repositioned.
- **B. A new tenant in the building has set their AP to the same RF channel that your customer is using.**
- C. A few of your customer's users have Bluetooth enabled wireless headsets.
- D. The sky was not as cloudy that day as it typically is and the sun also radiates electromagnetic waves.

Answer: B

Explanation:

A possible cause of a sudden change in performance for the laptop computers is that a new tenant in the building has set their AP to the same RF channel that your customer is using. This can create co-channel interference (CCI), which is a situation where two or more APs or devices use the same or overlapping channels in the same area. CCI can degrade the performance of WLANs by increasing contention, collisions, retransmissions, and latency. CCI can also reduce the effective range and throughput of WLANs by lowering the signal-to-noise ratio (SNR). To avoid or mitigate CCI, it is recommended to use non-overlapping channels, adjust transmit power levels, or implement channel management techniques such as dynamic frequency selection (DFS) or load balancing. The sky condition, antenna position, or Bluetooth headset are not likely to cause a sudden change in performance for the laptop computers. References: [CWNP Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 81; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 71.

NEW QUESTION # 117

What best describes WPA2 in relation to 802.11 wireless networks?

- **A. WPA2 is a certification created by the Wi-Fi Alliance that validates devices correctly implement CCMP/ AES.**
- B. WPA2 is specified in the 802.11 standard as implementing CCMP/AES.
- C. WPA2 is the standard that defines security for WLANs.
- D. WPA2 is the second version of WPA and it enhances security through the use of TKIP instead of WEP.

Answer: A

Explanation:

WPA2 (Wi-Fi Protected Access 2) is a security certification program developed by the Wi-Fi Alliance to secure wireless computer networks. It is important to understand the following:

WPA2 and the 802.11 Standard: While WPA2 is based on elements of the 802.11i amendment to the 802.11 standard, it is not itself a standard but rather a certification to ensure devices comply with certain security criteria, including the correct implementation of CCMP (Counter Mode Cipher Block Chaining Message Authentication Code Protocol) and AES (Advanced Encryption Standard). CCMP/AES Implementation: WPA2 enhances the security of wireless networks by using CCMP for encryption, which is based on AES, a robust encryption algorithm. This represents a significant security improvement over WEP (Wired Equivalent Privacy) and WPA (Wi-Fi Protected Access) that used TKIP (Temporal Key Integrity Protocol).

WPA vs. WPA2: WPA was the interim security enhancement over WEP, utilizing TKIP for encryption. WPA2, however, moved to the more secure AES-based encryption method. Contrary to option C, WPA2 does not enhance security by using TKIP; it uses CCMP/AES. Therefore, option B correctly describes WPA2 as a certification program ensuring devices properly implement the more secure CCMP/AES encryption methods.

NEW QUESTION # 118

What statement about 802.11 WLAN bridges is true?

- A. WLAN bridges only work in the 2.4 GHz frequency band and they support only SISO communications
- **B. WLAN bridges must use a channel with acceptable SNR at both transceivers to maintain the desired data rate bi-directionally**
- C. WLAN bridges must be implemented such that no interference occurs on the channel anywhere between the two endpoints used to establish the bridge
- D. WLAN bridges may support MIMO communications, but only if used in the 5 GHz frequency band

Answer: B

Explanation:

WLAN bridges must use a channel with acceptable SNR at both transceivers to maintain the desired data rate bi-directionally. A WLAN bridge is a device that connects two or more networks using the 802.11 protocol. A WLAN bridge must have a clear and strong signal between the two endpoints to ensure reliable and fast data transmission. The signal-to-noise ratio (SNR) is a measure of the quality of the signal, which depends on the distance, interference, obstacles, and antenna gain between the transceivers. A higher SNR means a better signal quality and a higher data rate. A lower SNR means a worse signal quality and a lower data rate. Therefore, a WLAN bridge must use a channel with acceptable SNR at both transceivers to maintain the desired data rate bi-directionally.

NEW QUESTION # 119

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