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1. You are designing an 802.3at-compliant network and are installing a 24-port Ethernet switch to

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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 Network Architecture and Design Concepts: This topic deals with describing and implementing Power over Ethernet (PoE). Furthermore, the topic covers different wireless LAN architectures, coverage requirements, roaming considerations, and common proprietary features in wireless networks.
Topic 3	RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.
Topic 4	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.

CWNP Wireless Network Administrator (CWNA) Sample Questions (Q17-Q22):

NEW QUESTION # 17

What security solution is required to be used in place of Open System Authentication for all open network 802.11 implementations in the 6 GHz band?

- **A. OWE**
- B. Kerberos
- C. WPA3-SAE
- D. WPA3-Enterprise

Answer: A

NEW QUESTION # 18

What best describes WPA2 in relation to 802.11 wireless networks?

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

Answer: C

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.

References:

* Wi-Fi Alliance website for WPA2 certification details.

* IEEE 802.11i-2004: Amendment for Enhanced Security.

NEW QUESTION # 19

When an ACK frame is not received by the transmitting STA, what is assumed?

- A. The receiver processed the frame, but did not respond with an ACK frame because 802.11w is enabled
- **B. The frame was not delivered and must be retransmitted**
- C. The receiver is offline
- D. The frame was correctly delivered

Answer: B

Explanation:

An ACK (Acknowledgement) frame is a short control frame that is sent by the receiver of a data or management frame to confirm that the frame was received correctly. The ACK frame is sent after a SIFS (Short Interframe Space) interval, which is the shortest time gap between frames in 802.11. If the transmitter does not receive an ACK frame within a specified time, it assumes that the frame was not delivered and must be retransmitted. This is part of the 802.11 reliability mechanism that ensures reliable data delivery over an unreliable wireless medium. References: [CWNA-109 Study Guide], Chapter 5: IEEE 802.11 Medium Access, page 209; [CWNA-109 Study Guide], Chapter 5: IEEE 802.11 Medium Access, page 203.

NEW QUESTION # 20

A client STA must choose the best AP for connectivity. As part of the evaluation, it must verify compatible data rates. What can the client STA use to verify that an AP supports the same data rates that it supports?

- A. Data frames sent between the AP and current clients STAs
- B. Probe request frames transmitted by other client STAs
- C. Authentication frames transmitted by the other client STAs
- **D. Beacon frames transmitted by the AP**

Answer: D

Explanation:

The client STA can use Beacon frames transmitted by the AP to verify that an AP supports the same data rates that it supports. Beacon frames are management frames that are periodically broadcasted by the APs to announce their presence, capabilities, and parameters. One of the information elements contained in the Beacon frames is the Supported Rates or Extended Supported Rates, which lists the data rates that the AP can use for communication. The client STA can compare its own data rates with those advertised by the AP to determine if they are compatible. Data frames, authentication frames, and probe request frames do not contain information about data rates. References: [CWNP Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 133; [CWNA: Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 123.

NEW QUESTION # 21

In an 802.11 2.4 GHz system, what 22 MHz channels are considered non-overlapping?

- A. 7 and 11
- B. 2 and 8
- C. 4 and 6
- **D. 1 and 5**

Answer: D

Explanation:

In the 2.4 GHz frequency band used for 802.11 wireless networks, the channel bandwidth is typically 20 MHz, but the actual frequency spread of each channel is about 22 MHz due to the modulation techniques used. This spread causes overlap between adjacent channels, which can lead to interference and degrade network performance. To avoid this, it's essential to use non-overlapping channels.

The three non-overlapping channels in the 2.4 GHz band are 1, 6, and 11. Each of these channels is spaced sufficiently apart to avoid interference with each other:

- * Channel 1: Centered at 2.412 GHz.
- * Channel 6: Centered at 2.437 GHz.
- * Channel 11: Centered at 2.462 GHz.

Given the options provided, option C (1 and 5) is the closest to a pair of non-overlapping channels, although in practice, channel 5 would still cause some interference with channel 1 due to the 22 MHz spread. The ideal choice for non-overlapping channels would be any two channels among 1, 6, and 11, but this is not an option provided. Therefore, within the given options, 1 and 5 are the best choice, understanding that in a real-world scenario, 1 and 6 or 6 and 11 would be preferred to avoid overlap.

References:

- * CWNA Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109, by David D. Coleman and David A. Westcott.
- * Understanding 2.4 GHz channel arrangement and interference patterns in 802.11 wireless networks.

NEW QUESTION # 22

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