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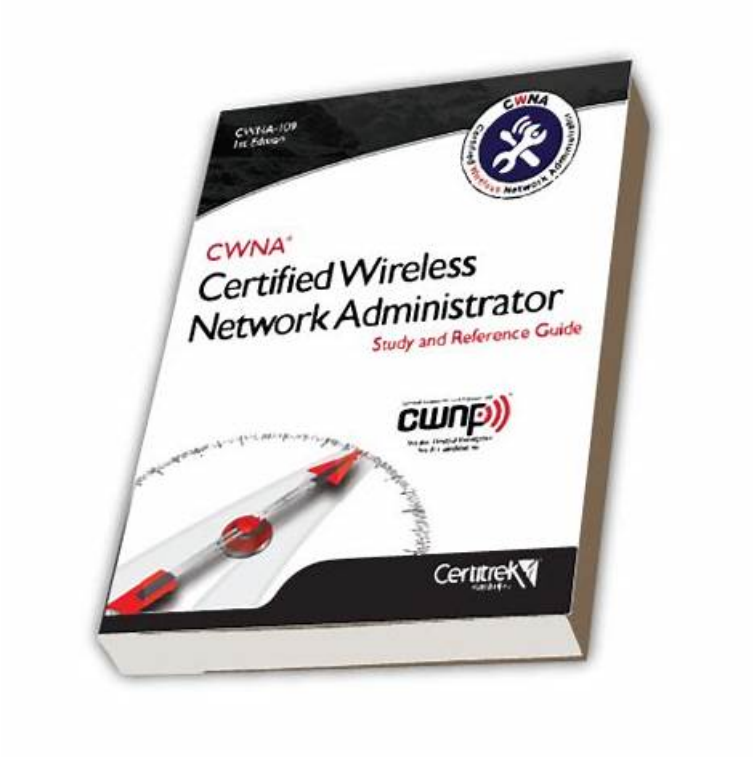

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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 4	• RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.
Topic 5	• WLAN Network Security: It addresses the concepts of weak security options, security mechanisms for enterprise WLANs, and security options and tools used in wireless networks.

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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q13-Q18):

NEW QUESTION # 13
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. WPA3-SAE
- C. WPA3-Enterprise
- D. Kerberos

Answer: A

NEW QUESTION # 14
During a post-implementation survey, you have detected a non-802.11 wireless device transmitting in the area used by handheld 802.11g scanners. What is the most important factor in determining the impact of this non-802.11 device?

- A. Airtime utilization
- B. Receive sensitivity
- C. Protocols utilized
- D. Channel occupied

Answer: A

Explanation:
Airtime Utilization is a per-channel statistic that defines what percentage of the channel is currently being used, and what percentage is therefore free. Airtime usage can come from: Data traffic to and from client devices. Interference from WiFi and non-WiFi sources. Management overhead from APs and client devices.
https://wyebot.com/2019/06/06/understanding-airtime-utilization/

NEW QUESTION # 15
When compared with legacy Power Save mode, how does VHT TXOP power save improve battery life for devices on a WLAN?

- A. VHT TXOP power save uses the partial AID in the preamble to allow clients to identify frames targeted for them.
- B. VHT TXOP power save allows the WLAN transceiver to disable more components when in a low power state.

- C. VHT TXOP power save allows stations to enter sleep mode and legacy Power Save does not.
- D. Legacy Power Save mode was removed in the 802.11ac amendment.

Answer: B

Explanation:
VHT TXOP (Very High Throughput Transmit Opportunity) power save is a feature introduced with the 802.11ac amendment, which is designed to improve the power efficiency of devices connected to a WLAN.
This feature enhances battery life in several ways, compared to the legacy Power Save mode:
* Enhanced Power Saving: VHT TXOP power save allows devices to disable more components of the WLAN transceiver when they are in a low power state. This reduces the power consumption during periods when the device is not actively transmitting or receiving data.
* Intelligent Wake-Up Mechanisms: It employs more sophisticated mechanisms for devices to determine when they need to wake up and listen to the channel, further reducing unnecessary power usage.
* Optimized Operation: This power save mode is optimized for the high-throughput environment of 802.11ac networks, allowing devices to efficiently manage power while maintaining high performance.
Legacy Power Save mode, introduced in earlier versions of the 802.11 standards, does not provide the same level of component disablement or the intelligent wake-up mechanisms found in VHT TXOP power save, making option B the correct answer.
References:
* IEEE 802.11ac-2013 Amendment: Enhancements for Very High Throughput for Operation in Bands below 6 GHz.
* CWNA Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109, by David D: Coleman and David A. Westcott.

NEW QUESTION # 16
You are tasked with performing a throughput test on the WLAN. The manager asks that you use open source tools to reduce costs. What open source tool is designed to perform a throughput test?

- A. iPerf
- B. Python
- C. PuTTy
- D. IxChariot

Answer: A

Explanation:
iPerf is an open source tool that is designed to perform a throughput test on the WLAN. iPerf is a cross- platform command-line tool that can measure the bandwidth and quality of network links by generating TCP or UDP traffic between two endpoints. iPerf can run as either a server or a client mode, depending on whether it receives or sends traffic. iPerf can also report various metrics of network performance, such as throughput, jitter, packet loss, delay, and TCP window size. To perform a throughput test on the WLAN using iPerf, one device needs to run iPerf in server mode and another device needs to run iPerf in client mode. The devices need to be connected to the same WLAN network and have their IP addresses configured properly. The device running iPerf in client mode needs to specify the IP address of the device running iPerf in server mode as well as other parameters such as protocol, port number, duration, interval, bandwidth limit, packet size, etc.
The device running iPerf in server mode will listen for incoming connections from the client device and send back acknowledgments or responses depending on the protocol used. The device running iPerf in client mode will send traffic to the server device according to the specified parameters and measure the network performance. The device running iPerf in client mode will display the results of the throughput test at the end of the test or at regular intervals during the test. The results can show the average, minimum, maximum, and instantaneous throughput of the network link, as well as other metrics such as jitter, packet loss, delay, and TCP window size.
References: 1, Chapter 7, page 287; 2, Section 4.3

NEW QUESTION # 17
You are implementing a VHT-capable AP. Which one of the following channels is available in the 802.11-2016 standard that was not available before the ratification of 802.11 ac?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

Explanation:
Channel 144 is a new channel that was added to the 5 GHz band by the 802.11ac amendment, which defines the VHT (Very High Throughput) PHY for WLANs. Channel 144 has a center frequency of 5720 MHz and a bandwidth of 20 MHz. It can also be combined with adjacent channels to form wider channels of 40 MHz, 80 MHz, or 160 MHz. Channel 144 is available in some regions, such as North America and Europe, but not in others, such as Japan and China . References: [CWNA-109 Study Guide], Chapter 3: Antennas and Accessories, page 121; [CWNA-109 Study Guide], Chapter 3: Antennas and Accessories, page 115; [Wikipedia], List of WLAN channels.

NEW QUESTION # 18
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