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CWNP CWNA-109 Practice Test with Latest CWNA-109 Exam Questions [2026]

RealValidExam has assembled a brief yet concise study material that will aid you in acing the CWNP Wireless Network Administrator (CWNA) (CWNA-109) exam on the first attempt. This prep material has been compiled under the expert guidance of 90,000 experienced CWNP professionals from around the globe. RealValidExam offers the complete package that includes all exam questions conforming to the syllabus for passing the CWNP Wireless Network Administrator (CWNA) (CWNA-109) exam certificate in the first try.

CWNP Wireless Network Administrator (CWNA) Sample Questions (Q99-Q104):

NEW QUESTION # 99

ABC Company is planning to install a new 802.11ac WLAN, but wants to upgrade its wired infrastructure first to provide the best user experience possible. ABC Company has hired you to perform the RF site survey.

During the interview with the network manager, you are told that the new Ethernet edge switches will support VoIP phones and 802.11 access points, both using 802.3 PoE.

After hearing this information, what immediate concerns do you note?

- A. VoIP phones and 802.11 access points should not be powered by the same edge switch due to distortion.
- B. The edge Ethernet switches should support Ether-channel to get the best results out of the network.
- C. If the switches are in optimal locations for VoIP phones, they are likely to be suboptimal locations for 802.11 APs
- D. The power budget in the edge switches must be carefully planned and monitored based on the number of supported PoE devices.

Answer: D

Explanation:

An immediate concern that you note after hearing this information is that the power budget in the edge switches must be carefully planned and monitored based on the number of supported PoE devices. PoE stands for Power over Ethernet and is a technology that allows Ethernet switches to deliver power along with data to devices such as VoIP phones and 802.11 access points. PoE devices are classified into different classes based on their power consumption and output. The edge switches have a limited power budget that determines how many PoE devices they can support simultaneously. If the power budget is exceeded, some PoE devices may not receive enough power or may shut down unexpectedly. Therefore, it is important to plan and monitor the power budget in the edge switches based on the number and class of PoE devices connected to them. Using Ether-channel, placing switches in optimal locations, or avoiding distortion are not immediate concerns related to PoE devices. References: [CWNP Certified Wireless Network Administrator Official Study Guide:

Exam CWNA-109], page 234; [CWNA: Certified Wireless Network Administrator Official Study Guide:

Exam CWNA-109], page 224.

NEW QUESTION # 100

When considering data rates available in HT and VHT PHY devices, in addition to the modulation, coding, channel width, and spatial streams, what impacts the data rate according to the MCS tables?

- A. guard interval
- B. client drivers
- C. Antenna Height
- D. Frequency band in use

Answer: A

Explanation:

The guard interval is a short period of time inserted between the symbols of an OFDM signal to prevent inter-symbol interference and improve the robustness of the transmission¹. The guard interval can have different values depending on the 802.11 standard and the configuration of the device. For example, 802.11n supports two guard intervals: 800 ns (normal) and 400 ns (short)². 802.11ac supports the same guard intervals as

802.11n, plus an optional 200 ns guard interval for 80 MHz and 160 MHz channels³. 802.11ax supports three guard intervals: 800 ns, 1600 ns, and 3200 ns⁴.

The guard interval affects the data rate because it determines the duration of each symbol. A shorter guard interval means more symbols can be transmitted in a given time, resulting in a higher data rate. However, a shorter guard interval also means less protection against inter-symbol interference, which may degrade the signal quality and increase the error rate. Therefore, there is a trade-off between data rate and reliability when choosing the guard interval.

The MCS tables for HT and VHT PHY devices show the data rates for different combinations of modulation, coding, channel width, spatial streams, and guard intervals. For example, for a VHT device using MCS 9 with QAM-256 modulation, 5/6 coding rate, 80 MHz channel width, and one spatial stream, the data rate is 433.3 Mbps with a normal guard interval (800 ns) and 486.7 Mbps with a short guard interval (400 ns)². Therefore, the guard interval impacts the data rate according to the MCS tables.

NEW QUESTION # 101

A POE device requires 47 W of power. What POE specification should be used?

- A. 802.3bt
- B. 802.3at
- C. 802.3af
- D. 802.11at

Answer: A

Explanation:

A POE device that requires 47 W of power should use the 802.3bt specification. This is because 802.3bt is the latest POE standard that supports up to 90 W of power delivery over four pairs of wires in an Ethernet cable.

The previous POE standards, such as 802.3af and 802.3at, only support up to 15.4 W and 30 W of power delivery over two pairs of wires in an Ethernet cable, respectively. Therefore, they are not sufficient for powering a device that requires 47 W of power. The 802.11at specification does not exist; it is a typo or confusion with the 802.3at specification. References: CWNA-109 Study Guide, Chapter 8: Wireless LAN Access Points, page 2431

NEW QUESTION # 102

What 802.11 network configuration would result in multiple stations broadcasting Beacon frames with the same BSSID but with different source addresses?

- A. An IBSS is used instead of a BSS.
- B. A single AP supports multiple BSSs with different SSIDs.
- C. An SCA network is in use.
- D. Multiple APs have been loaded with the same configuration from an image file.

Answer: A

Explanation:

An IBSS is used instead of a BSS is a network configuration that would result in multiple stations broadcasting Beacon frames with the same BSSID but with different source addresses. An IBSS (Independent Basic Service Set) is a type of WLAN that does not use an AP but rather allows stations to communicate directly with each other in a peer-to-peer manner. An IBSS is also known as an ad-hoc network or a peer-to-peer network. In an IBSS, each station generates its own Beacon frames to announce its presence and capabilities to other stations within range. The Beacon frames have the same BSSID, which is randomly generated by one of the stations when creating the IBSS, but they have different source addresses, which are the MAC addresses of each station's radio interface. The BSSID is used to identify the IBSS and prevent stations from joining other IBSSs with different BSSIDs. References: , Chapter 1, page 25; , Section 1.1

NEW QUESTION # 103

What is the most effective method for testing roaming in relation to 802.11 VoIP handsets?

- A. Place a call with the handset and move around the facility to test quality during roaming.
- B. Use a spectrum analyzer to monitor RF activity during a VoIP call.
- C. Use a protocol analyzer to capture the traffic generated when a laptop roams.
- D. Use the built-in roaming monitor built into all VoIP handsets.

Answer: A

Explanation:

The most effective method for testing roaming in relation to 802.11 VoIP handsets is to place a call with the handset and move around the facility to test quality during roaming. This method allows you to evaluate the actual performance and user experience of VoIP calls over wireless networks, as well as identify any potential issues such as signal strength, interference, latency, jitter, packet loss, or handoff delays. A spectrum analyzer can only show you the RF activity during a VoIP call, but not how it affects the voice quality or roaming behavior. A protocol analyzer can capture the traffic generated when a laptop roams, but it cannot simulate the characteristics of a VoIP handset such as battery life, antenna design, codec support, or QoS features. A built-in roaming monitor is not a common feature in all VoIP handsets, and it may not provide accurate or comprehensive information about the roaming process. References: [CWNP Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 487; [Voice over Wireless LAN 4.1 Design Guide], page 6-19.

NEW QUESTION # 104

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