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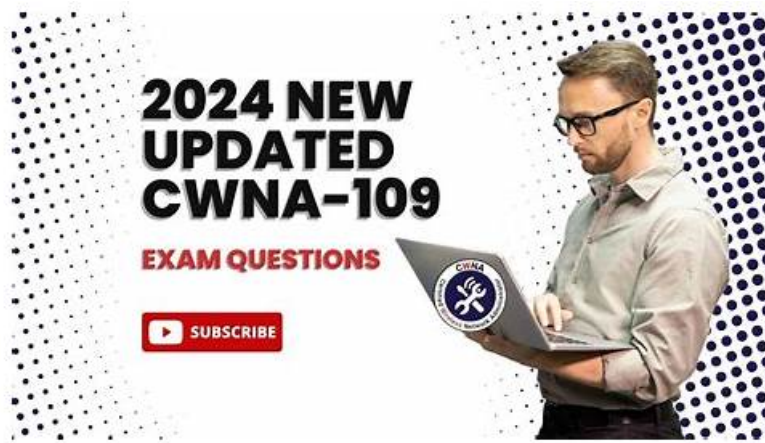

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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 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.

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As the labor market becomes more competitive, a lot of people, of course including students, company employees, etc., and all want to get CWNP authentication in a very short time, this has developed into an inevitable trend. Each of them is eager to have a strong proof to highlight their abilities, so they have the opportunity to change their current status, including getting a better job, have higher pay, and get a higher quality of material, etc. It is not easy to qualify for a qualifying exam in such a short period of time. Our company's CWNA-109 Study Guide is very good at helping customers pass the exam and obtain a certificate in a short time, and now I'm going to show you our CWNA-109 exam dumps. Our products mainly include the following major features.

CWNP Wireless Network Administrator (CWNA) Sample Questions (Q22-Q27):

NEW QUESTION # 22
You are configuring an access point to use channel 128. What important fact should be considered about this channel?

- A. It is a channel that is unsupported by all access points in all regulatory domains

- B. It is a 2.4 GHz frequency band 40 MHz channel, so it should not be used
- C. It is a 22 MHz channel so it will overlap with the channels above and below it
- D. It is a channel that may require DFS when used

Answer: D

Explanation:
It is a channel that may require DFS when used is an important fact that should be considered about channel
128. Channel 128 is a 5 GHz frequency band 20 MHz channel that has a center frequency of 5.64 GHz.
Channel 128 is one of the channels that are subject to DFS (Dynamic Frequency Selection) rules, which require Wi-Fi devices to monitor and avoid using channels that are occupied by radar systems or other primary users. DFS is a feature that is defined in the IEEE 802.11h amendment and is mandated by some regulatory bodies, such as the FCC and the ETSI, to protect the licensed users of the 5 GHz band from interference by unlicensed Wi-Fi devices. DFS works by using a mechanism called channel availability check (CAC), which requires Wi-Fi devices to scan a channel for a certain period of time before using it. If a radar signal is detected during the CAC or while using the channel, the Wi-Fi devices must switch to another channel that is free from radar interference.
When configuring an access point to use channel 128, it is important to consider the implications of DFS rules, such as:
* The access point must support DFS and comply with the local regulations and standards that apply to DFS channels.
* The access point may experience delays or interruptions in its operation due to CAC or channel switching.
* The access point may have limited channel selection or availability due to radar interference or other Wi-Fi devices using DFS channels.
* The access point may have compatibility or interoperability issues with some client devices that do not support DFS or use different DFS parameters.
* The access point may have performance or quality issues due to co-channel or adjacent-channel interference from other Wi-Fi devices using non-DFS channels.
Therefore, it is advisable to use channel 128 only when necessary and after performing a thorough site survey and spectrum analysis to determine the best channel for the access point. References: 1, Chapter 3, page
117; 2, Section 3.2

NEW QUESTION # 23
Which one of the following is not a factor considered when calculating the Link Budget for an outdoor point-to- point WLAN bridge link?

- A. Operating frequency
- B. MU-MIMO capabilities of the bridges
- C. Transmit power
- D. Receive antenna gain

Answer: B

Explanation:
MU-MIMO capabilities of the bridges are not a factor considered when calculating the Link Budget for an outdoor point-to-point WLAN bridge link. The Link Budget is a calculation of the expected signal strength at the receiver based on various factors that affect the RF transmission. Some of these factors are operating frequency, transmit power, receive antenna gain, free space path loss, cable loss, connector loss, and environmental loss. MU-MIMO stands for Multi-User Multiple Input Multiple Output, which is a technology that allows multiple devices to communicate simultaneously using multiple spatial streams. MU-MIMO is not relevant for a point-to-point link, where there are only two devices involved. References: 1, Chapter 2, page
59; 2, Section 2.2

NEW QUESTION # 24
What factor does not influence the distance at which an RF signal can be effectively received?

- A. Receiving station's radio sensitivity
- B. Free Space Path Loss
- C. Receiving station's output power
- D. Transmitting station's output power

Answer: C

Explanation:
In wireless communication, several factors influence the effective reception of RF signals, including the receiving station's radio sensitivity, the transmitting station's output power, and free space path loss. However, the receiving station's output power does not influence the distance at which an RF signal can be effectively received. The key factors that impact signal reception distance are:
* Receiving Station's Radio Sensitivity: This refers to the lowest signal strength at which the receiver can process a signal with an acceptableerror rate. Higher sensitivity allows for better reception at greater distances.
* Transmitting Station's Output Power: This is the power with which a transmitter sends out a signal.
Higher output power can extend the range of transmission, making it easier for distant receivers to detect the signal.
* Free Space Path Loss (FSPL): FSPL represents the attenuation of radio energy as it travels through free space. It increases with distance and frequency, reducing the signal strength as the distance from the transmitter increases.
The output power of the receiving station is related to how strong a signal it sends out, not how well it can receive or process incoming signals. Therefore, it does not affect the reception distance of incoming RF signals.
References:
* CWNA Certified Wireless Network Administrator Official Study Guide: Exam PW0-105, by David D.
Coleman and David A. Westcott.
* RF fundamentals and RF design considerations in wireless communication systems.

NEW QUESTION # 25
What statement is true concerning the use of Orthogonal Frequency Division Multiplexing (OFDM) modulation method in IEEE 802.11 WLANs?

- A. OFDM implements BPSK modulation to allow for data rates up to 7 Gbps.
- B. OFDM was used by Frequency Hopping Spread Spectrum (FHSS) PHY devices.
- C. OFDM modulation is used only in 5 GHz 802.11 transmissions.
- D. OFDM was first introduced in 802.11a and is used by the ERP, HT and VHT PHYs as well.

Answer: D

Explanation:
OFDM is a modulation method that divides the channel bandwidth into multiple subcarriers, each carrying a single data symbol. This allows for higher data rates and more robust transmissions in multipath environments.
OFDM was first introduced inthe 802.11a standard, which operates in the 5 GHz band and supports data rates up to 54 Mbps.
Later, the 802.11g standard adopted OFDM for the 2.4 GHz band, and the 802.11n and
802.11ac standards enhanced OFDM with features such as MIMO (Multiple Input Multiple Output), channel bonding, and higher-order modulation schemes to achieve data rates up to 600 Mbps and 6.9 Gbps, respectively. These standards are collectively known as the ERP (Extended Rate PHY), HT (High Throughput), and VHT (Very High Throughput) PHYs . References: [CWNA-109 Study Guide], Chapter 4:
Radio Frequency Signal and Antenna Concepts, page 163; [CWNA-109Study Guide], Chapter 4: Radio Frequency Signal and Antenna Concepts, page 157.

NEW QUESTION # 26
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 power budget in the edge switches must be carefully planned and monitored based on the number of supported PoE devices.
- C. If the switches are in optimal locations for VoIP phones, they are likely to be suboptimal locations for 802.11 APs
- D. The edge Ethernet switches should support Ether-channel to get the best results out of the network.

Answer: B

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:

ExamCWNA-109], page 234; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 224.

NEW QUESTION # 27

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