

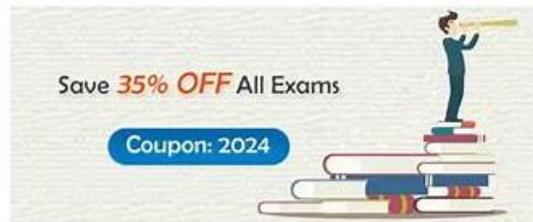
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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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

- 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.

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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q37-Q42):

NEW QUESTION # 37

Option 43 must be configured to allow access points to locate controllers. In what network service should this option be configured?

- A. DNS
- **B. DHCP**
- C. RADIUS
- D. LDAP

Answer: B

Explanation:

DHCP (Dynamic Host Configuration Protocol) is the network service where option 43 must be configured to allow access points to locate controllers. DHCP is a protocol that allows a device to obtain an IP address and other network configuration parameters from a server. In a wireless controller scenario, the access points can use DHCP to request an IP address from a DHCP server, which can also provide the IP address or hostname of the wireless controller as an option in the DHCP response. Option 43 is a vendor-specific option that can be used to encode custom information for different types of devices. For example, Cisco access points can use option 43 to receive the IP address of the wireless controller from the DHCP server, while Aruba access points can use option 43 to receive the hostname of the wireless controller from the DHCP server. This way, the access points can discover the wireless controller and establish a connection with it. References: 1, Chapter 8, page 309; 2, Section 5.2

NEW QUESTION # 38

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 acceptable error 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 # 39

What statement about the beamwidth of an RF antenna is true?

- A. Vertical beamwidth is displayed (in degrees) on the antenna's Azimuth chart.
- B. The beamwidth patterns on an antenna polar chart indicate the point at which the RF signal stops propagating.
- C. When antenna gain is lower, the beamwidth is also lower in both the horizontal and vertical dimensions.
- **D. Horizontal and vertical beamwidth are calculated at the points where the main lobe decreases power by 3 dB.**

Answer: D

Explanation:

The beamwidth of an RF antenna is the angular measure of how wide the main lobe of radiation is. The main lobe is the area where the signal strength is highest and most concentrated. The beamwidth is calculated at the points where the main lobe decreases power by 3 dB, which means it is half of the maximum power. The beamwidth can be measured in both horizontal and vertical planes, depending on how the antenna is oriented.

The horizontal beamwidth is also called azimuth, while the vertical beamwidth is also called elevation. The beamwidth patterns on an antenna polar chart indicate how the RF energy is distributed in different directions. References: 1, Chapter 2, page 66; 2, Section 2.3

NEW QUESTION # 40

A client complains of low data rates on his computer. When you evaluate the situation, you see that the signal strength is -84 dBm and the noise floor is -96 dBm. The client is an 802.11ac client and connects to an 802.11ac AP. Both the client and AP are 2x2:2 devices. What is the likely cause of the low data rate issue?

- A. Too few spatial streams
- **B. Weak signal strength**
- C. Lack of support for 802.11n
- D. CAT5e cabling run to the AP

Answer: B

Explanation:

Weak signal strength is the likely cause of the low data rate issue for the client that has a signal strength of -84 dBm and a noise floor of -96 dBm. The client is an 802.11ac client and connects to an 802.11ac AP. Both the client and AP are 2x2:2 devices. Signal strength is the measure of how strong the RF signal is at the receiver.

Signal strength can affect the reliability and performance of the wireless connection, as well as the data rate and throughput of the traffic. The higher the signal strength, the better the signal quality and the higher the data rate. The lower the signal strength, the worse the signal quality and the lower the data rate.

The data rate of an 802.11ac connection depends on several factors, such as channel bandwidth, modulation and coding scheme (MCS), spatial streams, guard interval, and beamforming. However, these factors are also influenced by the signal strength, as they require a certain signal-to-noise ratio (SNR) to operate properly.

SNR is the ratio of the signal strength to the noise floor, which is the measure of the background noise or interference in the RF environment. The higher the SNR, the more robust and efficient the communication.

The lower the SNR, the more prone and vulnerable to errors and retries.

According to the CWNA Official Study Guide, Table 3.7, page 112, an 802.11ac connection with a channel bandwidth of 80 MHz, an MCS of 9, two spatial streams, a short guard interval, and no beamforming can achieve a maximum data rate of 867 Mbps. However, this data rate requires a minimum SNR of 30 dB to maintain a sufficient signal quality. If the signal strength is -84 dBm and the noise floor is -96 dBm, then the SNR is only 12 dB (-84 dBm - (-96 dBm) = 12 dB), which is far below the required SNR for this data rate.

Therefore, the data rate will drop significantly to match the lower SNR and signal quality.

To solve this problem, the signal strength should be increased to improve the SNR and data rate. This can be done by adjusting the

output power or channel assignment of the AP or client, relocating or reorienting some APs or antennas to reduce attenuation or interference, updating or replacing some faulty outdated hardware or software components, etc. References: , Chapter 3, page 112; , Section 3.2

NEW QUESTION # 41

In which plane of the three networking planes is an access point configured by a WLAN controller?

- A. Security
- B. Data
- C. Management
- D. Control

Answer: C

Explanation:

An access point is configured by a WLAN controller in the management plane of the three networking planes.

The management plane is responsible for the configuration, administration, and monitoring of network devices, such as access points, switches, routers, and controllers. The WLAN controller communicates with the access point using a management protocol, such as CAPWAP or SNMP, to send configuration commands and receive status information. The control plane is responsible for the routing, switching, and forwarding of network traffic, such as data frames and control frames. The WLAN controller may also participate in the control plane by performing functions such as authentication, encryption, roaming, and load balancing. The security plane is responsible for the protection of network devices and data from unauthorized access, modification, or disclosure. The WLAN controller may also participate in the security plane by implementing features such as firewall, VPN, IDS/IPS, and WIPS. The data plane is responsible for the transmission and reception of user data, such as voice, video, or web traffic. The WLAN controller may or may not participate in the data plane depending on the architecture of the WLAN. In some cases, the access point forwards the user data directly to the wired network without involving the WLAN controller (distributed data forwarding). In other cases, the access point tunnels the user data to the WLAN controller before forwarding it to the wired network (centralized data forwarding). References: CWNA-109 Study Guide, Chapter 9: Wireless LAN Architecture, page 279

NEW QUESTION # 42

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