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## CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>

## CWNP Wireless Network Administrator (CWNA) Sample Questions (Q104-Q109):

### NEW QUESTION # 104

The center frequency of channel 1 in the 2.4 GHz band is 2.412 GHz (2412 MHz). What is the center frequency of channel 4?

- A. 2.417
- B. 2.427
- C. 2.422
- D. 2.413

**Answer: B**

Explanation:

The center frequency of channel 4 in the 2.4 GHz band is 2.427 GHz (2427 MHz). The center frequency of a channel is the midpoint of its frequency range, where the signal strength is highest and most concentrated. The center frequency of channel 1 in the 2.4 GHz band is 2.412 GHz (2412 MHz), as given in the question. The center frequency of each subsequent channel is obtained by adding 5 MHz to the previous channel's center frequency, since the channels are spaced 5 MHz apart from each other in this band. Therefore, to find the center frequency of channel 4, we need to add 15 MHz (5 MHz x 3) to the center frequency of channel 1:  
 $2.412 \text{ GHz} + 0.015 \text{ GHz} = 2.427 \text{ GHz}$

Alternatively, we can use a formula to calculate the center frequency of any channel in the 2.4 GHz band:

Center frequency (GHz) =  $2.407 + (0.005 \times \text{Channel number})$

Using this formula for channel 4, we get:

Center frequency (GHz) =  $2.407 + (0.005 \times 4)$

Center frequency (GHz) =  $2.407 + 0.02$

Center frequency (GHz) = 2.427 References: 1, Chapter 3, page 85; 2, Section 3.2

### NEW QUESTION # 105

Which directional antenna types are commonly used by indoor Wi-Fi devices in a MIMO multiple spatial stream implementation?

- A. Dipole and yagi
- B. Dish and grid
- C. Patch and panel
- D. Grid and sector

**Answer: C**

Explanation:

Patch and panel antennas are directional antenna types that are commonly used by indoor Wi-Fi devices in a MIMO multiple spatial stream implementation. These antennas have a flat rectangular shape and can be mounted on walls or ceilings to provide coverage in a specific direction. They have a moderate gain and a relatively wide beamwidth, making them suitable for multipath environments where signals can reflect off different surfaces and create multiple spatial streams. Patch and panel antennas can also support polarization diversity, which means they can transmit and receive both horizontally and vertically polarized waves, increasing the MIMO performance. References: 1, Chapter 2, page 72; 2, Section 2.4

#### NEW QUESTION # 106

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

- A. 2 and 8
- B. 7 and 11
- 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 # 107

What statement about 802.11 WLAN performance is true?

- **A. In modern networks, both centralized and distributed data forwarding work well for most standard office deployments**
- B. WLANs perform better as more wireless clients connect with each AP
- C. In most WLANs, no special skill or tuning is required to get peak performance
- D. To get the best performance out of an AP, you should disable data rates of 72 Mbps and lower

**Answer: A**

Explanation:

The statement that in modern networks, both centralized and distributed data forwarding work well for most standard office deployments is true about WLAN performance. Data forwarding refers to how wireless frames are transmitted from wireless clients to wired networks or vice versa through wireless access points (APs).

Centralized data forwarding means that all wireless frames are sent to a central controller or gateway before being forwarded to their destinations. Distributed data forwarding means that wireless frames are forwarded directly by the APs to their destinations without going through a central controller or gateway. Both methods have their advantages and disadvantages, depending on the network size, topology, traffic pattern, security, and management requirements. However, in modern networks, both methods can achieve high performance and scalability for most standard office deployments, as they can leverage advanced features such as fast roaming, load balancing, quality of service, and encryption. The other statements about WLAN performance are false. In most WLANs, special skill or tuning is required to get peak performance, such as selecting the appropriate channel, power, data rate, and antenna settings. WLANs perform worse as more wireless clients connect with each AP, as they cause more contention and interference on the wireless medium. To get the best performance out of an AP, you should not disable data rates of 72 Mbps and lower, as they

are needed for backward compatibility and range extension. References: CWNA-109 Study Guide, Chapter 9: Wireless LAN Architecture, page 2811

### NEW QUESTION # 108

What is the final step in an effective troubleshooting process?

- A. Verify the solution
- **B. Document the results**
- C. Notify the users of problem resolution
- D. Disable the WLAN

**Answer: B**

Explanation:

The final step in an effective troubleshooting process is to document the results. Documentation is essential for keeping track of the problem history, the actions taken, the solutions implemented, and the outcomes achieved. Documentation can also help to prevent future problems, improve best practices, and provide feedback for improvement. Documentation should include relevant information such as problem description, symptoms, root cause analysis, resolution steps, verification methods, and lessons learned. References: [CWNP Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 513; [CWNA: Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 483.

### NEW QUESTION # 109

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