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## CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<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 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>
Topic 4	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>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.</li></ul>

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### CWNP Wireless Network Administrator (CWNA) Sample Questions (Q35-Q40):

#### NEW QUESTION # 35

When antenna gain is reported in dBi, the gain of the antenna is compared to what theoretical radiator?

- A. End-fire radiator
- B. Anthropomorphic radiator
- C. Isotropic radiator
- D. Dipole radiator

**Answer: C**

Explanation:

An isotropic radiator is a theoretical point source of electromagnetic radiation that radiates equally in all directions. It has no physical dimensions and no preferred direction of radiation. It is used as a reference for antenna gain because it represents the ideal case of a perfect omnidirectional antenna<sup>12</sup>. Antenna gain is a measure of how well an antenna concentrates its radiated power in a certain direction. It is expressed in decibels (dB) relative to a reference antenna. When the reference antenna is an isotropic radiator, the antenna gain is denoted by dBi, which stands for decibels relative to isotropic<sup>12</sup>. For example, an antenna with a gain of 3 dBi means that it radiates 3 dB more power in its main direction than an isotropic radiator would. Conversely, an antenna with a gain of -3 dBi means that it radiates 3 dB less power in its main direction than an isotropic radiator would<sup>12</sup>.

#### NEW QUESTION # 36

When a STA has authenticated to an AP (AP-1), but still maintains a connection with another AP (AP-2), what is the state of the STA on AP-1?

- A. Authenticated and Unassociated
- B. Authenticated and Associated
- C. Unauthenticated and Unassociated
- D. Transitional

**Answer: A**

Explanation:

Authenticated and Unassociated. According to one of the web search results<sup>1</sup>, a STA can be authenticated to multiple APs, but it can only be associated to one AP at a time. Association is the process of establishing a logical link between the STA and the AP, which allows the STA to send and receive data frames through the AP<sup>2</sup>. Therefore, when a STA has authenticated to an AP-1, but still maintains a connection with another AP-2, it means that the STA is authenticated to both APs, but only associated to AP-2. The state of the STA on AP-1 is authenticated and unassociated, which means that the STA can switch to AP-1 without repeating the authentication process, but it cannot send or receive data frames through AP-1 until it becomes associated.

#### NEW QUESTION # 37

XYZ Company has decided to install an 802.11 WLAN system that will support 1083 wireless users, but they are concerned about network security. XYZ is interested in deploying standardized security features. In addition to WPA2-Enterprise with PEAP and

role-based access control, XYZ would like to support management frame protection as well as a fast secure roaming protocol for future mobile handsets.

As XYZ Company selects a product to deploy, what two IEEE amendments, which are included in 802.11-2016, and 802.11-2020 should be supported to provide the management frame protection and fast secure roaming security features?

- A. 802.11j and 802.11z
- **B. 802.11r and 802.11w**
- C. 802.11k and 802.11v
- D. 802.11j and 802.11k

**Answer: B**

Explanation:

The two IEEE amendments that should be supported to provide the management frame protection and fast secure roaming security features are 802.11r and 802.11w.

\* 802.11r (Fast BSS Transition): This amendment to the IEEE 802.11 standard permits continuous connectivity aboard wireless devices in motion, with fast and secure client transitions from one Basic Service Set to another.

\* 802.11w (Management Frame Protection): This amendment increases the security of its management frames.

### NEW QUESTION # 38

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 # 39

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

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

**Answer: C**

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

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