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## CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<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>
Topic 2	<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 3	<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>

## CWNP Wireless Network Administrator (CWNA) Sample Questions (Q20-Q25):

### NEW QUESTION # 20

A WLAN transmitter that emits a 50 mW signal is connected to a cable with 3 dB loss. If the cable is connected to an antenna with 9dBi gain, what is the EIRP at the antenna element?

- A. 13 dBm
- B. 10 dBm
- C. 26 dBm
- D. 23 dBm

### Answer: D

Explanation:

To calculate the EIRP at the antenna element, we need to add the transmitter output power, subtract the cable loss, and add the antenna gain. All these values need to be converted to dBm first, if they are not already given in that unit. In this case, we have: Transmitter output power = 50 mW = 10 log (50) dBm = 16.99 dBm Cable loss = 3 dB Antenna gain = 9 dBi EIRP = Transmitter output power - Cable loss + Antenna gain EIRP = 16.99 - 3 + 9 EIRP = 22.99 dBm Rounding up to the nearest integer, we get 23 dBm as the EIRP at the antenna element.

References: CWNA-109 Study Guide, Chapter 2: Radio Frequency Fundamentals, page 92; CWNA-109 Study Guide, Chapter 2: Radio Frequency Fundamentals, page 88.

### NEW QUESTION # 21

Your manager asked you to locate a solution that allows for centralized monitoring of WLAN performance over time. He wants a single pane of glass for administration and monitoring of the solution. What do you recommend?

- A. Overlay WLAN monitoring solution
- B. AP-based spectrum analysis
- C. Laptop-based spectrum analyzers
- D. Laptop-based protocol analyzers

### Answer: A

Explanation:

The solution that you recommend is an Overlay WLAN monitoring solution. An Overlay WLAN monitoring solution is a system that uses dedicated sensors or probes to monitor the WLAN performance over time. The sensors are deployed throughout the WLAN coverage area and collect data on various metrics such as signal strength, noise level, channel utilization, interference, throughput, latency, packet loss, and QoS. The sensors send the data to a centralized server or appliance that analyzes the data and provides a

single pane of glass for administration and monitoring of the solution. An Overlay WLAN monitoring solution can help to detect and troubleshoot WLAN issues, optimize WLAN performance, and generate reports and alerts. References: [CWNP Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 538; [CWNA: Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 508.

#### NEW QUESTION # 22

During a post-implementation survey, you have detected a non-802.11 wireless device transmitting in the area used by handheld 802.11g scanners. What is the most important factor in determining the impact of this non-802.11 device?

- A. Receive sensitivity
- B. Protocols utilized
- C. Channel occupied
- D. **Airtime utilization**

#### Answer: D

Explanation:

Airtime Utilization is a per-channel statistic that defines what percentage of the channel is currently being used, and what percentage is therefore free. Airtime usage can come from Data traffic to and from client devices. Interference from WiFi and non-WiFi sources. Management overhead from APs and client devices.

<https://wyebot.com/2019/06/06/understanding-airtime-utilization/>

#### NEW QUESTION # 23

Which unit of measurement, as formally defined, is an absolute unit that is used to quantify received signal power levels on a logarithmic scale?

- A. **dBm**
- B. SNI
- C. dBi
- D. VSWR

#### Answer: A

Explanation:

The unit of measurement that is an absolute unit and is used to quantify received signal power levels on a logarithmic scale is dBm. dBm stands for decibel-milliwatt and represents the power level relative to 1 milliwatt (mW). dBm is an absolute unit because it has a fixed reference point and does not depend on the input power level. dBm is used to measure the received signal power levels on a logarithmic scale because it can express large variations in power levels with small numbers and make calculations easier. For example, a

10 dB increase in power level means a 10-fold increase in power, and a 20 dB increase means a 100-fold increase in power.

References: [CWNP Certified Wireless Network Administrator Official Study Guide:

ExamCWNA-109], page 66; [CWNA: Certified Wireless Network Administrator Official Study Guide:

ExamCWNA-109], page 56.

#### NEW QUESTION # 24

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

#### Answer: C

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 # 25

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