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**Question: 629**

If an RF signal is transmitted with a power of 10 dBm and has an antenna gain of 2 dBi, what is the EIRP if the cable loss is 3 dB?

- A) 12 dBm
- B) 15 dBm
- C) 8 dBm
- D) 9 dBm

Answer: D

Explanation: EIRP is calculated as  $EIRP = P_{tx} + G_{ant} - L_{cable} = 10 \text{ dBm} + 2 \text{ dBi} - 3 \text{ dB} = 9 \text{ dBm}$ .

**Question: 630**

A radio wave travels through a vacuum and encounters a boundary with a different medium. If the angle of incidence is 45 degrees and the refractive index of the new medium is 1.5, what is the angle of refraction?

- A) 30 degrees
- B) 60 degrees
- C) 45 degrees

D) 25 degrees

Answer: A

Explanation: Using Snell's Law,  $n_1 \sin(\theta_1) = n_2 \sin(\theta_2)$ . Thus,  
 $\sin(\theta_2) = \frac{1 \cdot \sin(45^\circ)}{1.5} \Rightarrow \theta_2 \approx 30^\circ$ .

**Question: 631**

In a wireless communication system, what would be the SNR in dB if the received signal is -50 dBm and the noise floor is -90 dBm?

- A) 40 dB
- B) 30 dB
- C) 20 dB
- D) 10 dB

Answer: A

Explanation: SNR is calculated as  $SNR = P_{rx} - P_{noise} = -50 \text{ dBm} - (-90 \text{ dBm}) = 40 \text{ dB}$ .

**Question: 632**

When considering the diffraction of RF signals, what is the primary factor that determines the extent of diffraction around an obstacle?

- A) The size of the obstacle
- B) The frequency of the RF signal
- C) The power of the RF signal
- D) The distance to the obstacle

Answer: B

Explanation: The frequency of the RF signal significantly affects diffraction; lower frequency signals tend to diffract more effectively around obstacles compared to higher frequencies.

**Question: 633**

If a wireless device operates at a frequency of 5 GHz and measures a received signal strength of -40 dBm, what is the SNR if the noise floor is -100 dBm?

- A) 50 dB
- B) 40 dB
- C) 60 dB
- D) 70 dB

Answer: C

Explanation: SNR is calculated as  $SNR = P_{rx} - P_{noise} = -40 \text{ dBm} - (-100 \text{ dBm}) = 60 \text{ dB}$ .

**Question: 634**

In RF communication, if an antenna's gain is 4 dBi and the effective isotropic radiated power (EIRP) is 30 dBm, what is the transmitter's output power?

- A) 26 dBm
- B) 30 dBm
- C) 34 dBm
- D) 28 dBm

Answer: A

Explanation: The output power can be calculated as  $P_{tx} =$

$$EIRP - G_{ant} = 30 \text{ dBm} - 4 \text{ dBi} = 26 \text{ dBm}.$$

**Question: 635**

A signal experiences a loss of 15 dB while traveling through a medium. If the original signal strength is 25 dBm, what is the strength of the signal after the loss?

- A) 20 dBm
- B) 5 dBm
- C) 15 dBm
- D) 10 dBm

Answer: D

Explanation: The received signal strength is calculated as

$$P_{received} = P_{initial} - L = 25 \text{ dBm} - 15 \text{ dB} = 10 \text{ dBm}.$$

**Question: 636**

A network engineer is tasked with implementing a WLAN that includes Ruckus access points and Ubiquiti devices. Which proprietary protocol should the engineer consider to enable effective load balancing among the access points?

- A. Ubiquiti AirMax
- B. Ruckus SmartLoad
- C. Cisco Load Balancing Protocol
- D. Aruba Load Balancing System

Answer: B

Explanation: Ruckus SmartLoad is a proprietary feature designed to optimize load balancing among access points, ensuring efficient distribution of client connections.

**Question: 637**

A company is planning to implement a wireless LAN in a large conference room. They are considering using a ceiling-mounted omnidirectional antenna. What is the primary benefit of using this type of antenna in such an environment?

- A. Focused signal distribution
- B. Better signal penetration through walls
- C. Increased interference rejection
- D. 360-degree coverage

Answer: D

Explanation: An omnidirectional antenna provides 360-degree coverage, making it suitable for environments like conference rooms where users may be located in various positions.

**Question: 638**

When implementing a WLAN that includes Cisco and Ruckus access points, which feature allows for automatic adjustments to the RF environment based on client behavior?

- A. Dynamic Frequency Selection (DFS)

- B. Adaptive Radio Management (ARM)
- C. Smart Channel Selection
- D. Client Steering

Answer: B

Explanation: Adaptive Radio Management (ARM) automatically adjusts RF settings based on client behavior and environmental conditions, optimizing performance across multiple vendors.

**Question: 639**

A wireless vendor is developing a new product for the European market that will operate in the 2.4 GHz band. What is one key requirement they must adhere to regarding the device's power output?

- A. Must not exceed 1000 mW EIRP.
- B. Must only operate with directional antennas.
- C. Must comply with the ETSI power limits of 20 dBm.
- D. Must allow for dynamic power adjustments based on signal quality.

Answer: C

Explanation: In Europe, under ETSI regulations, devices operating in the 2.4 GHz band must not exceed a power output of 20 dBm (100 mW) EIRP.

**Question: 640**

Imagine a scenario where a company has deployed both autonomous and controller-based access points within the same network. Which of the following challenges is most likely to arise from this mixed deployment?

- A. Difficulties in network-wide policy enforcement
- B. Increased latency due to cloud management
- C. Enhanced load balancing across all APs
- D. Simplified client device connection processes

Answer: A

Explanation: A mixed deployment of autonomous and controller-based access points can lead to inconsistencies in policy enforcement, complicating network management and client experience.

**Question: 641**

When deploying a wireless repeater in a network, which factor is most important to consider in order to minimize the potential for performance degradation due to increased latency?

- A. The type of encryption used in the network.
- B. The physical distance from the Access Point to the repeater.
- C. The number of client devices connected to the repeater.
- D. The repeater's power source.

Answer: B

Explanation: The physical distance from the Access Point to the repeater is crucial because greater distances can lead to weaker signals and increased latency, negatively impacting overall network performance.

**Question: 642**

In a scenario where client devices are experiencing poor roaming performance between Ruckus and Ubiquiti access points, which of the following features could improve the situation?

- A. Ubiquiti SmartMesh
- B. Cisco CleanAir
- C. Aruba ClientMatch
- D. Ruckus ChannelFly

Answer: D

Explanation: Ruckus ChannelFly dynamically selects the best channel for access points to reduce interference and improve client performance, which can help enhance roaming capabilities.

**Question: 643**

What is the maximum number of non-overlapping channels available for 802.11ac in the 5 GHz band when using standard channel widths?

- A. 4
- B. 8
- C. 24
- D. 12

Answer: C

Explanation: There are up to 24 non-overlapping channels in the 5 GHz band for 802.11ac when using standard channel widths.

**Question: 644**

In a scenario where a wireless network is designed to support high-density environments, which of the following 802.11 standards would you most likely implement to maximize throughput and minimize latency?

- A. 802.11ax
- B. 802.11n
- C. 802.11ac
- D. 802.11g

Answer: A

Explanation: 802.11ax, also known as Wi-Fi 6, is designed to handle high-density environments with features like OFDMA and improved MU-MIMO, allowing for better throughput and lower latency compared to previous standards.

**Question: 645**

You are tasked with ensuring the security of a corporate WLAN. During a routine audit, you discover a rogue access point that mimics your legitimate SSID. What is the most effective method to prevent users from connecting to this rogue device?

- A. Implement MAC address filtering on the legitimate APs
- B. Deploy Wireless Intrusion Prevention Systems (WIPS) to automatically disconnect rogue APs
- C. Increase the transmit power of legitimate APs to overpower the rogue signal
- D. Educate users to avoid connecting to unknown networks

Answer: B

Explanation: Deploying a Wireless Intrusion Prevention System (WIPS) can actively detect and mitigate rogue access points by automatically disconnecting them from the network, providing a more robust solution than user education or MAC filtering.

**Question: 646**

In designing a WLAN for a high-density environment such as a stadium, which of the following considerations is most critical to ensure both capacity and coverage are adequately addressed?

- A. Deploying APs with omnidirectional antennas only
- B. Selecting a 2.4 GHz band exclusively to maximize coverage
- C. Using a combination of 2.4 GHz and 5 GHz APs while implementing load balancing
- D. Placing APs in corners of the venue to minimize interference

Answer: C

Explanation: A combination of 2.4 GHz and 5 GHz APs allows for greater capacity and coverage, while load balancing helps distribute client connections effectively.

**Question: 647**

When configuring a captive portal, what user experience feature can significantly enhance guest satisfaction while maintaining security?

- A. User-friendly interface and clear instructions
- B. Immediate access without authentication
- C. Complex login procedures
- D. Limited access to only a few websites

Answer: A

Explanation: A user-friendly interface with clear instructions greatly enhances guest satisfaction by simplifying the connection process while maintaining necessary security measures.

**Question: 648**

A company is transitioning to a new wireless security protocol. What is one of the key features of WPA3 that differentiates it from WPA2 in terms of user experience?

- A. WPA3 requires all devices to support 802.1X.
- B. WPA3 does not support legacy devices.
- C. WPA3 eliminates the need for encryption altogether.
- D. WPA3 provides a simplified setup process for new devices.

Answer: D

Explanation: WPA3 offers a simplified setup process for new devices, making it easier for users to connect securely without compromising security, improving the overall user experience compared to

WPA2.

**Question: 649**

In the context of WLAN design, what is the primary reason for utilizing a heatmap to visualize signal strength across a surveyed area?

- A. To ensure that the APs are powered correctly
- B. To determine the number of clients connected to each AP
- C. To identify potential dead zones and areas of weak signal
- D. To calculate the total bandwidth used by the network

Answer: C

Explanation: Heatmaps help visualize areas with strong and weak signals, allowing designers to identify dead zones that require additional coverage.

**Question: 650**

When configuring a WIDS (Wireless Intrusion Detection System), which of the following parameters is crucial for detecting rogue APs?

- A. SSID broadcasting
- B. RSSI thresholds
- C. Channel utilization
- D. EAP types

Answer: B

Explanation: RSSI thresholds are vital for WIDS to accurately determine the strength of signals from various APs and identify any unauthorized or rogue devices in the network.

**Question: 651**

When configuring a wireless network that requires user authentication, which of the following protocols would be the least secure option for protecting against unauthorized access?

- A. EAP-TTLS
- B. EAP-MSCHAPv2

- C. PEAP
- D. EAP-FAST

Answer: B

Explanation: EAP-MSCHAPv2 is less secure than the other options because it relies on password-based authentication without the additional security provided by certificates, making it more vulnerable to attacks.

**Question: 652**

A network engineer is implementing a WLAN in a large warehouse. What is the most critical factor to consider when selecting access points for this environment?

- A. Access point aesthetics
- B. Number of available SSIDs
- C. Support for legacy devices
- D. Durability and range of access points

Answer: D

Explanation: Durability and range are crucial in a warehouse environment due to potential physical damage and the need for extensive coverage across large areas.

**Question: 653**

A company implements a captive portal for guest access to its WLAN. Which of the following configurations would best enhance security while still providing user convenience?

- A. Require users to input their email address before accessing the network
- B. Allow unlimited access without any authentication
- C. Implement a time-limited guest access token
- D. Use a simple password shared openly with all guests

Answer: C

Explanation: Implementing a time-limited guest access token enhances security by restricting the duration of access, while still providing a convenient way for guests to connect to the network.



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