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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 $EIRP = P_{tx} + G_{ant} - L_{cable} = 10\,dBm + 2\,dBi - 3\,dB = 9\,dBm$.

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 $SNR = P_{rx} - P_{noise} = -50\,dBm - (-90\,dBm) = 40\,dB$.

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 $SNR = P_{rx} - P_{noise} = -40\,dBm - (-100\,dBm) = 60\,dB$.

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 $P_{tx} =$

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

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

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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