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**QUESTION 1**

An RF signal sometimes bends as it passes through some material other than free space. What is the term that describes this behavior?

- A. Reflection
- B. Refraction
- C. Scattering
- D. Warping

Correct Answer: B

QUESTION 2

What factor will have the most significant impact on the amount of wireless throughput available to each station within a BSS?

- A. The Layer 3 protocol used by each station to transmit data over the wireless link
- B. The number of client stations associated to the BSS
- C. The power management settings in the access point beacons
- D. The presence of co-located (10m away) access points on non-overlapping channels

Correct Answer: B

QUESTION 3

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

Correct Answer: C

AP Spectrum analysis does not qualify as a centralized solution for WLAN performance. An overlay monitoring system should be the right answer.

QUESTION 4



ABC Company is planning a point-to-multipoint outdoor bridge deployment with standalone (autonomous) 802.11 bridge units. 802.1X/EAP will be used for bridge authentication. A Linux-based RADIUS server will be used for authentication. What device in the bridge implementation acts as the 802.1X Authenticator?

- A. The Ethernet switch
- B. The RADIUS server
- C. All non-root bridges
- D. The root bridge

Correct Answer: D

QUESTION 5

An AP is advertised as a tri-band, 4x4:4, Wi-Fi 6, 802.11ax AP. Based on this information and assuming it is correctly advertised, what can be determined as certainly true about this AP?

- A. It supports four channels in 2.4 GHz and 4 channels in 5 GHz
- B. It supports UL-MU-MIMO
- C. It uses a modified OpenWRT firmware
- D. It has 4 radio chains

Correct Answer: D

Explanation: Based on the information given, what can be determined as certainly true about this AP is that it has 4 radio chains. A radio chain is a hardware component that consists of an antenna, a radio frequency (RF) amplifier, and a transceiver. The number of radio chains indicates how many spatial streams an AP can transmit or receive simultaneously using Multiple Input Multiple Output (MIMO) technology. The notation x:y:z in an AP specification denotes the number of radio chains (x), the number of spatial streams (y), and the number of spatial streams per band (z). Therefore, a tri-band, 4x4:4, Wi-Fi 6, 802.11ax AP has four radio chains in each of its three bands (2.4 GHz, low 5 GHz, and high 5 GHz). It also supports four spatial streams in total and four spatial streams per band. It cannot be determined as certainly true that it supports four channels in each band, UL-MU-MIMO, or uses a modified OpenWRT firmware based on the information given. References: [CWNP Certified Wireless Network Administrator Official Study Guide: WNA-107], page 223; [CWNA: Certified Wireless Network Administrator Official Study Guide: WNA-106], page 213.

QUESTION 6

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. Channel occupied
- C. Airtime utilization
- D. Protocols utilized



Correct Answer: C

QUESTION 7

What is appended to the end of each 802.11 data frame after the payload?

- A. FCS
- B. Preamble
- C. MAC header
- D. PHY header

Correct Answer: A

QUESTION 8

You are troubleshooting a controller-based AP that is unable to locate the controller. DHCP is not used and the controller is located at 10.10.10.81/24 while the AP is on the 10.10.16.0/24 network. What should be inspected to verify proper configuration?

- A. NTP
- B. BOOTH
- C. DNS
- D. AP hosts file

Correct Answer: C

QUESTION 9

What Linux shell command can be used to view the hardware and PHY capabilities of a wireless adapter in detail including channel widths, output power setting, channels supported, and more?

- A. ifconfig
- B. iw phy
- C. netsh wlan show device
- D. iwconfig

Correct Answer: D

QUESTION 10



You are deploying a WLAN monitoring solution that utilizes distributed sensor devices. Where should sensors be deployed for best results? Choose the single best answer.

- A. Every 20 feet and alongside each AP
- B. Closer to the APs
- C. Closer to the client devices
- D. IN critical areas where WLAN performance must be high

Correct Answer: C

QUESTION 11

What non-standard WLAN solution attempts to give a longer transmission windows to devices with higher data rates then devise with lower data rates?

- A. AirTime Fairness
- B. Band Steering
- C. ARM
- D. RRM

Correct Answer: A

QUESTION 12

What factor does not influence the distance at which an RF signal can be effectively received?

- A. Free Space Path Loss
- B. Receiving station's radio sensitivity
- C. Transmitting station's output power
- D. Receiving station's output power

Correct Answer: B

QUESTION 13

You are planning for PoE in a standard office deployment. Which one of these devices is least likely to be a PoE PD?

- A. Video camera
- B. Access point
- C. VoIP phone



D. Ethernet switch

Correct Answer: D

QUESTION 14

A natural disaster has occurred in a remote area that is approximately 40 miles from the response team headquarters. The response team must setup a local wireless network using 802.11 WLAN access points. What is the best method, of those listed, for implementation of network backhaul for communications across the Internet in this scenario?

A. Temporary wired cable

B. 802.11 bridging

C. Cellular/LTE

D. Temporary wired DSL

Correct Answer: C

QUESTION 15

What statement about 802.11 WLAN bridges is true?

A. WLAN bridges only work in the 2.4 GHz frequency band and they support only SISO communications

B. WLAN bridges must use a channel with acceptable SNR at both transceivers to maintain the desired data rate bi-directionally

C. WLAN bridges may support MIMO communications, but only if used in the 5 GHz frequency band

D. WLAN bridges must be implemented such that no interference occurs on the channel anywhere between the two endpoints used to establish the bridge

Correct Answer: C

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