CWNA-107 Dumps

Certified Wireless Network Administrator (CWNA)

https://www.certleader.com/CWNA-107-dumps.html

NEW QUESTION 1
What non-standard WLAN solution attempts to give a longer transmission windows to devices with higher data rates than devices with lower data rates?

A. AirTime Faimess
B. Band Steering
C. ARM
D. RRM

Answer: A

NEW QUESTION 2
Return Loss is the decrease of forward energy in a system when some of the power is being reflected back toward the transmitter.
What will cause high return loss in an RF transmission system, including the radio, cables, connectors and antenna?

A. The use of cables longer than one meter in the RF system
B. High output power at the transmitter and use of a low-gain antenna
C. A Voltage Standing Wave Ratio (VSWR) of 1:1
D. An impedance mismatch between components in the RF system

Answer: D

NEW QUESTION 3
The requirements for a WLAN you are installing state that it must support unidirectional delays of less than 150 ms and the signal strength at all receivers can be no lower than -67 dBm. What application is likely used that demands these requirements?

A. E-Mail
B. RTLS
C. VoIP
D. FTP

Answer: B

NEW QUESTION 4
What ID is typically mapped to an AP's MAC address if a single BSS is implemented?

A. VLAN ID
B. BSSID
C. Device ID
D. SSID

Answer: B

Explanation:
Reference https://technet.microsoft.com/en-us/library/cc757419(v=ws.10).aspx

NEW QUESTION 5
Option 43 must be configured to allow access points to locate controllers. In what network service should this option be configured?

A. DHCP
B. LDAP
C. DNS
D. RADIUS

Answer: A

Explanation:
Reference
https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/97066-dhcp-option-43-00.html

NEW QUESTION 6
What cipher suite is specified by the 802.11-2016 standard and is not deprecated?

A. Temporal Key Integrity Protocol
B. Extensible Authentication Protocol
C. Counter Mode with CBC- MAC Protocol
D. Wired Equivalent Privacy

Answer: C

NEW QUESTION 7
What is an advantage of using WPA2-Personal instead of WEP-128 as a security solution for 802.11 networks?

A. WPA2-Personal uses CCMP for encryption, and WEP-128 uses TKIP for encryption
B. WPA2-Personal uses dynamic encryption keys, and WEP-128 uses static keys

C. WPA2-Personal uses 802.1X/EAP for authentication, and WEP-128 uses preshared keys
D. WPA2-Personal is based on IEEE 802.11 industry standards, but WEP is not

Answer: B

NEW QUESTION 8
You have received a report of poor wireless connections on the third floor of a building under your administration. Three individuals have reported the problem. Apparently, the connections are reposting a strong signal, but the users cannot access the Internet. With the problem identified, what is the next logical step in the troubleshooting process?

A. Perform corrective actions
B. Discover the scale of the problem
C. Create a plan of action or escalate the problem
D. Verify the solution

Answer: A

NEW QUESTION 9
What security method is commonly used for VoIP handsets when the infrastructure does not support OKC or FT roaming?

A. WPA2-Enterprise with EAP-TTLS
B. WPA2-Enterprise with EAP-TLS
C. WPA2-Enterprise with PEAP
D. WPA2-Personal

Answer: B

NEW QUESTION 10
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

Answer: C

NEW QUESTION 10
You support a WLAN using dual- band 802.11ac three stream access points. All access points have both the 2.4 GHz and 5 GHz radios enabled and use 40 MHz channels in 2.4 GHz. A manager is concerned about the fact that each access point is connected using a 1 Gbps Ethernet link. He is concerned that the Ethernet link will not be able to handle the load from the wireless radios. What do you tell him?

A. His concern is valid and the company should upgrade all Ethernet link to 10 Gbps immediately.
B. His concern is valid and the company should immediately plan to run a second 1 Gbps Ethernet link to each AP.
C. Due to 802.11 network operations and dynamic rates used by devices on the network, the two radios will likely not exceed the 1 Gbps Ethernet link .
D. His concern is invalid because the AP will compress all data before transmitting it onto the Ethernet link.

Answer: D

NEW QUESTION 11
You are troubleshooting a WLAN problem and you suspect hidden node as the cause. What should you look for in a protocol analyzers?

A. Frames with the HN bit set to 1
B. Frames with the retry bit set to 0
C. Frames transmitted from the AP without acknowledgement
D. Retransmitted frames from multiple STAs at higher rates than other STAs

Answer: D

Explanation:
Reference http://setup-wireless.blogspot.com/2008/11/wireless-hidden-node.html

NEW QUESTION 15
You support a WLAN using dual-band 802.11ac three stream access points. All access points have both the 2.4 GHz and 5 GHz radios enabled and use 40 MHz channels in 5 GHz and 20 MHz channels in 2.4 GHz. A manager is concerned about the fact that each access point is connected using a 1 Gbps Ethernet link. He is concerned that the Ethernet link will not be able to handle the load from the wireless radios. What do you tell him? 2.4

A. His concern is valid and the company should upgrade all Ethernet links to 10 Gbps immediately.
B. His concern is valid and the company should immediately plan to run a second 1 Gbps Ethernet link to each AP.
C. His concern is invalid because the AP will compress all data before transmitting it onto the Ethernet link.
D. Due to 802.11 network operations and the dynamic rates used by devices on the network, the two radios will likely not exceed the 1 Gpbs Ethernet link.

Answer: A

NEW QUESTION 20
In an 802.11n 2.4 GHz BSS, what prevents each station from using the full network data rate (e.g. 216.7 Mbps) for user data when multiple clients are actively exchanging data with the AP?

A. Half of the bandwidth is allocated to uplink traffic and half to downlink traffic
B. All data frames must be acknowledged and the medium is shared
C. Radio receiver hardware cannot process data is quickly as it can be transmitted
D. APs do not have sufficient wired connection speeds to the LAN, even at 1 Gbps connections, with 802.11n and earlier APs

Answer: B

NEW QUESTION 24
When using a spectrum analyzer to look for non-Wi-Fi interference sources, you notice significant interference across the entire 2.4 GHz band (not on a few select frequencies) within the desktop area of a user's workspace, but the interference disappears quickly after just 2 meters. What is the most likely cause of this interference?

A. USB 3 device in the user's work area
B. Bluetooth devices in the user's work area
C. Excess RF energy from a nearby AP
D. Unintentional radiation from the PC power supply

Answer: D

Explanation:
Reference https://www.reddit.com/r/electronics/comments/2i2s76/is_the_emf_of_a_pc_without_a_case_much_higher/?st=

NEW QUESTION 29
As an RF wave propagates through space, the wave front experiences natural expansion that reduces its signal strength in an area. What term describes the rate at which this expansion happens?

A. Inverse square law
B. Ohm's law
C. Fresnel zone thinning
D. MU-MIMO

Answer: A

NEW QUESTION 31
You are troubleshooting an issue reported by several wireless users. The problem is contained to one cell (several users connected to the same AP). You manage the WLAN and no other network devices. After analysis it appears to be a switch problem. What action should be taken?

A. Create a plan of action and implement it
B. Escalate the problem to the network administration team
C. Document the results and close the case
D. Escalate the problem to the wireless vendor support staff

Answer: B

NEW QUESTION 36
What is the most effective method of testing roaming in relation to 802.11 VoIP handsets?

A. Use the built-in roaming monitor built into all VoIP handsets.
B. Use a protocol analyzer to capture the traffic generated when a laptop roams.
C. Place a call with the handset and move around the facility to test quality during roaming.
D. Use a spectrum analyzer to monitor RF activity during a VoIP call.

Answer: C

NEW QUESTION 38
A client STA must choose the best AP for connectivity. As part of the evaluation, it must verify compatible data rates. What can the client STA use to verify that an AP supports the same data rates that it supports?

A. Beacon frames transmitted by the AP
B. Data frames sent between the AP and current client STAs
C. Authentication frames transmitted by the other client STAs
D. Probe request frames transmitted by other client STAs

Answer: D

Explanation:
Reference
https://supportforums.cisco.com/t5/wireless-mobility-documents/802-11-sniffer-capture-analysis-management-f

NEW QUESTION 41
When compared with legacy Power Save mode, how does VHT TXOP power save improve battery life for devices on a WLAN?

A. VHT TXOP power save allows stations to enter sleep mode and legacy Power Save does not.
B. VHT TXOP power save allows the WLAN transceiver to disable more components when in a low power state.
C. VHT TXOP power save uses the partial AID in the preamble to allow clients to identify frames targeted for them.
D. Legacy Power Save mode was removed in the 802.11ac amendment.

Answer: C

NEW QUESTION 42
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: A

Explanation:
Reference
https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-1/Enterprise-Mobility-8-1-Design-Guide/Enterprise

NEW QUESTION 46
Which IEEE 802.11 physical layer (PHY) specification includes support for and compatibility with both ERP and HR/DSSS?

A. VHT (802.11ac)
B. OFDM (802.11a)
C. DSSS (802.11-Prime)
D. HT (802.11n)

Answer: D

NEW QUESTION 50
Three access points are used within a facility. One access point is on channel 11 and the other two are on channel 1. The two access points using channel 1 are on either side of the access point using channel 11 and sufficiently apart so that they do not interfere with each other when they transmit frames. Assuming no other APs are in the vicinity, is CCI still a possibility in this network and why?

A. Yes, because the client devices connected to one of the channel 1 APs will transmit frames that reach the other channel 1 AP as well as clients connected to the other channel 1 AP.
B. No, because the APs are far enough apart that no CCI will occur.
C. No, because CCI only occurs in the 5 GHz frequency band.
D. Yes, because channel 11 loops around and causes CCI with channel 1.

Answer: A

NEW QUESTION 51
Your consulting firm has recently been hired to complete a site survey for a company. Your engineers use predictive design software for the task, but the company insists on a pre-deployment site visit.
What task should be performed as part of the pre-deployment visit to prepare for a predictive design?

A. Evaluate the building materials at ABC's facility and confirm that the floor plan documents are consistent with the actual building
B. Install at least one AP on each side of the exterior walls to test for co-channel interference through these walls
C. Test several antenna types connected to the intended Aps for use in the eventual deployment
D. Collect information about the company's security requirements and the current configuration of their RADIUS and user database servers

Answer: A

NEW QUESTION 55
What statement is true concerning the use of Orthogonal Frequency Division Multiplexing (OFDM) modulation method in IEEE 802.11 WLANs?

A. OFDM was used by Frequency Hopping Spread Spectrum (FHSS) PHY devices.
B. OFDM was first introduced in 802.11 and is used by the ERP, HT and VHT PHYs as well.
C. OFDM implement BPSK modulation to allow for data rates up to 7 Gbps.
D. OFDM modulation is used only in 5 GHz 802.11 transmissions.

Answer: D

Explanation:
 Reference
http://www.rhyshaden.com/802_11a.htm

NEW QUESTION 56
Which one of the following channels can be used for VHT transmissions?

A. 44
B. 1
C. 7

D. 13

Answer: A

NEW QUESTION 57
You are configuring an access point to use channel 128. What important fact should be considered about this channel?

A. It is a 22 MHz channel so it will overlap with the channels above and below it
B. It is a 2.4 GHz frequency band 40 MHz channel, so it should not be used
C. It is a channel that is unsupported by most access points
D. It is a channel that likely requires DFS when used

Answer: D

NEW QUESTION 60
You are attempting to explain RF shadow and how it can cause lack of coverage. What common building item frequently causes RF shadow and must be accounted for in coverage plans?

A. Wooden doors
B. Carpeted floors
C. Elevators
D. Cubicle partitions

Answer: D

NEW QUESTION 65
What statement about the IEEE 802.11-2016 QoS facility is true?

A. 802.11 QoS is achieved by giving high priority queues a statistical advantage at winning contention.
B. Four 802.1p user priorities are mapped to eight 802.11 transmit queues.
C. 802.11 control frames are assigned to the 802.11 EF priority queue.
D. When the Voice queue has frames awaiting transmission, no data will be transmitted from the Best Effort queue.

Answer: A

NEW QUESTION 67
A client complains of low data rates on his computer. When you evaluate the situation, you see that the signal strength is -84 dBm and the noise floor is -96 dBm. The client is an 802.11ac client and connects to an 802.11acAP. Both the client and AP are 2x2:2 devices. What is the likely cause of the low data rate issue?

A. Weak signal strength
B. Too few spatial streams
C. Lack of support 802.11n
D. CAT5e cabling run to the AP

Answer: A

NEW QUESTION 69
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

Answer: C

NEW QUESTION 73
You are evaluating access points for use in the 5GHz frequency band. What PHY supports this band and supports 80 MHz channels?

A. OFDM
B. HT
C. VHT
D. ERP

Answer: C

Explanation:
Reference https://www.cwnp.com/802-11ac-vht-just-the-facts/

NEW QUESTION 75
In a long-distance RF link, which statement about Fade Margin is true?

A. The Fade Margin is a measurement of signal loss through free space and is a function of frequency and distance.
B. The Fade Margin of a long-distance radio link should be equivalent to the receiver's low noise filter gain.
C. A Fade Margin is unnecessary on a long-distance RF link if more than 80% of

D. Fade Margin is an additional pad of signal strength designed into the RF system to compensate for unpredictable signal fading.

Answer: D

NEW QUESTION 79
When considering data rates available in HT and VHT PJY devices, in addition to the modulation, coding, channel width, and spatial streams, what impacts the data rate according to the MCS tables?

A. The Frequency band in use
B. The client drivers
C. The guard interval
D. The height of the antennas

Answer: C

Explanation:
Reference https://arxiv.org/pdf/1702.03257.pdf

NEW QUESTION 80
You are configuring an access point to use channel 128. What important fact should be considered about this channels?

A. It is a 22 MHz channel so it will overlap with the channels above and below it
B. It is a 2.4 GHz frequency band 40 MHz channel, so it should not be used
C. It is a channel that is unsupported by most access points
D. It is a channel that likely requires DFS when used

Answer: D

NEW QUESTION 81
When a client station sends a broadcast probe request frame with a wildcard SSID, how do APs respond?

A. For each probe request frame, only one AP may reply with a probe response.
B. Each AP responds in turn after preparing a probe response and winning contention.
C. Each AP checks with the DHCP server to see if it can respond and then acts accordingly.
D. After waiting a SIFS, all APs reply at the same time with a probe response.

Answer: B

NEW QUESTION 85
The BSA of an AP covers the area used by the sales and marketing department. Thirty-five stations operate in this space. The user indicate that they need more throughput and all stations are 5 GHz capable 802.11ac clients. The current AP configuration uses 20 MHz channels in both 2.4 GHz and 5 GHz. What is the least expensive solution available for increasing throughput for these users without implementing configuration options that are not recommended?

A. Use a 160 MHz channel on the 5 GHz radio
B. Use a 40 MHz channel on the 5 GHz radio
C. Install a second AP in the coverage area
D. Use a 40 MHz channel on the 2.4 GHz radio.

Answer: C

NEW QUESTION 88
What best describes WPA2 in relation to 802.11 wireless networks?

A. WPA2 is specified in the 802.11 standard as implementing CCMP/AES.
B. WPA2 is the standard that defines security for WLANs.
C. WPA2 is a certification created by the Wi-Fi Alliance that validates devices correctly implement CCMP/AES.
D. WPA2 is the second version of WPA and it enhances security through the use of TKIP instead of WEP.

Answer: B

NEW QUESTION 90
Lynne runs a small hotel, and as a value added for his customers he has implemented a Wi-Fi hot-spot. Lynne has read news articles about how hackers wait at hot-spots trying to take advantage of unsuspecting users. He wants to avoid this problem at his hotel.
What is an efficient and practical step that Lynne can take to decrease the likelihood of active attacks on his customers' wireless computers?

A. Implement Network Access Control (NAC) and require antivirus and firewall software along with OS patches.
B. Implement an SSL VPN in the WLAN controller that initiates after HTTPS login.
C. Enable station-to-station traffic blocking by the access points in the hotel.
D. Require EAP_FAST authentication and provide customers with a username/password on their receipt.

Answer: B

NEW QUESTION 94
ABC Company is planning to install a new 802.11ac WLAN, but wants to upgrade its wired infrastructure first to provide the best user experience possible. ABC Company has hired you to perform the RF site survey. During the interview with the network manager, you are told that the new Ethernet edge switches will

support VoIP phones and 802.11 access points, both using 802.3 PoE.
After hearing this information, what immediate concerns do you note?

A. The power budget in the edge switches must be carefully planned and monitored based on the number of supported PoE devices.
B. The edge Ethernet switches should support Ether-channel to get the best results out of the network.
C. VoIP phones and 802.11 access points should not be powered by the same edge switch due to distortion.
D. If the switches are in optimal locations for VoIP phones, they are likely to be suboptimal locations for 802.11 APs

Answer: A

NEW QUESTION 96
You are troubleshooting a controller-based AP that is unable to locate the controller. DHCP is not use 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

Answer: C

NEW QUESTION 97
In a mesh BSS (MBSS), according to the 802.11-2016 standard, what device connect the mesh to an Ethernet network?

A. Mesh Gate
B. Mesh Switch
C. Mesh Router
D. Mesh Portal

Answer: A

Explanation:
Reference https://www.cwnp.com/uploads/802-11s_mesh_networking_v1-0.pdf

NEW QUESTION 101
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