

Exam Questions CWNA-107

Certified Wireless Network Administrator (CWNA)

<https://www.2passeasy.com/dumps/CWNA-107/>



NEW QUESTION 1

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

Answer: A

NEW QUESTION 2

You recently purchased four laptops containing dual-band 802.11ac adapters. The laptops can connect to your 2.4 GHz network, but they cannot connect to the 5 GHz network. The laptops do not show the 5 GHz SSIDs, which are different than the 2.4 GHz SSIDs. Existing devices can connect to the 5 GHz SSIDs with no difficulty. What is the likely problem?

- A. Interference from non-Wi-Fi sources
- B. Faulty drivers
- C. DoS attack
- D. Interference from other WLANs

Answer: D

NEW QUESTION 3

You are evaluating access points for use in the 5 GHz 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 4

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

Answer: A

NEW QUESTION 5

You administer a WLAN that offers a guest SSID of GUESTNWORK. User connect to the GUESTNWORK SSID, but report that they cannot browse the internet. The devices simply report no internet connection. What common problem causes this scenario?

- A. NTP issues
- B. Hardware issues
- C. IP routing issues
- D. Captive portal issues

Answer: C

NEW QUESTION 6

What wireless networking term describes the increase of RF energy in an intentional direction with the use of an antenna?

- A. Directed Radiation
- B. Active Amplification
- C. Passive Gain
- D. Beam Digression

Answer: C

Explanation:

Reference

https://books.google.com.pk/books?id=sAC_2j-lwwIC&pg=PA51&lpg=PA51&dq=passive+gain+increase+of+R

NEW QUESTION 7

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:

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

NEW QUESTION 8

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

NEW QUESTION 9

In which plane of the three networking planes is an access point configured by a WLAN controller?

- A. Control
- B. Management
- C. Security
- D. Data

Answer: B

Explanation:

Reference <https://books.google.com.pk/books?id=HQxhBgAAQBAJ&pg=PA343&lpg=PA343&dq=plane+of+the+three+n>

NEW QUESTION 10

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 10

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 15

What can an impedance mismatch in the RF cables and connectors cause?

- A. Fewer MCS values in the MCS table
- B. Excessive VSWR
- C. Increased amplitude of the RF signal
- D. Increased range of the RF signal

Answer: B

Explanation:

Reference <https://books.google.com.pk/books?id=uA68E68OqQgC&pg=PA235&lpg=PA235&dq=impedance+mismatch+>

NEW QUESTION 19

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 21

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 24

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. BOOTP
- C. DNS
- D. AP hosts file

Answer: C

NEW QUESTION 27

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 Gbps Ethernet link.

Answer: A

NEW QUESTION 32

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 as 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 36

In a mesh BSS (MBSS), according to the 802.11-2016 standard, what device connects 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 38

A standard PoE injector is used to power an access point requiring 802.3at. CAT6 cabling is in use. What is the maximum distance supported between the access point and the Ethernet switch with the use of a midspan power injector?

- A. 100 meters
- B. 300 meters
- C. 328 meters
- D. 200 meters

Answer: A

NEW QUESTION 43

The IEEE 802.11-2016 standard requires VHT capable devices to be backward compatible with devices using which other 802.11 physical layer specification (PHY)?

- A. ERP-PBCC
- B. DSSS
- C. OFDM
- D. HR/DSSS

Answer: C

NEW QUESTION 44

You are managing a wireless access point in autonomous mode using the Web based interface. You capture traffic during this management task and notice that you can see the HTML code of the Web pages for access point management. What error in administration could be the cause of the security concern?

- A. A VPN with the AP is not established
- B. WPA2 is disabled on the WLAN
- C. HTTP is in use instead of HTTPS
- D. IPsec is not in use of the management connection as recommended

Answer: C

NEW QUESTION 46

You are using a site survey tool for post-implementation validation. You have installed the appropriate adapter driver and imported a floor plan. Now, you want to take the next step in proper tool use. What must you do before gathering survey data after the floor plan is imported?

- A. Install iPerf
- B. Install WinPCAP
- C. Calibrate the floor plan
- D. Nothing, you can simply start capturing signal readings

Answer: C

NEW QUESTION 49

You are installing an AP to be used by 23 laptops. All laptops will connect on the 5 GHz frequency band. A neighbor network uses channels 1 and 6. What channel should be used for this AP and why?

- A. Channel 6, because it is always best to use this channel
- B. A 5 GHz channel, because channels 1 and 6 are 2.4 GHz channels they have no impact on the decision
- C. Channel 1, because it is best to use the channel with the lowest frequency
- D. Channel 11, because channels 1 and 6 are in use nearby

Answer: B

NEW QUESTION 52

You are evaluating a connection that states the data rate is 150 Mbps. What is the expected throughput of this connection?

- A. Less than 150 Mbps because of 802.11 overhead and contention
- B. 54 Mbps because that is the actual maximum throughput of an 802.11 connection
- C. More than 150 Mbps because of compression
- D. 150 Mbps because the data rate is equal to the throughput

Answer: A

NEW QUESTION 55

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 57

A string of characters and digits is entered into an AP and a client STA for WPA2 security. The string is 8 characters long. What is this string called?

- A. MSK
- B. WEP key
- C. Passphrase
- D. PSK

Answer: C

Explanation:

http://www.arubanetworks.com/techdocs/ArubaOS_64x_WebHelp/Content/ArubaFrameStyles/VirtualAPs/SSID

NEW QUESTION 62

What terms accurately complete the following sentence?

The IEEE 802.11-2016 standard specifies mandatory support of the cipher suite for Robust Security Network Associations, and optional use of the cipher suite, which is designed for use with pre-RSNA hardware and is deprecated.

- A. 802.1X/EAP, WEP
- B. CCMP, TKIP
- C. TLS, SSL
- D. RC5, RC4

Answer: B

NEW QUESTION 65

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 68

You recently purchased four laptops containing dual-band 802.11ac adapters. The laptops can connect to your 2.4 GHz network, but they cannot connect to the 5 GHz network. The laptops do not show the 5 GHz SSIDs, which are different than the 2.4 GHz SSIDs. Existing devices can connect to the 5 GHz SSIDs with no difficulty. What is the likely problem?

- A. Interference from non-Wi-Fi sources
- B. Faulty drivers
- C. DoS attack
- D. Interference from other WLANs

Answer: D

NEW QUESTION 70

What 802.11 PHY uses available space in very low frequency ranges that is not in use at the time by broadcast video signals?

- A. DMG
- B. SIG
- C. DSSS
- D. TVNT

Answer: C

NEW QUESTION 73

What common feature of MDM solutions can be used to protect enterprise data on mobile devices?

- A. Over-the-air registration
- B. Onboarding
- C. Containerization
- D. Self-registration

Answer: B

NEW QUESTION 74

You are reporting on the RF environment in your facility. The manager asks you to describe the noise floor noted on the report. Which of the following is the best explanation:?

- A. The energy radiated by flooring materials that causes interference in the 2.4 GHz and 5 GHz bands.
- B. The noise caused by elevators, microwave ovens, and video transmitters.
- C. The RF energy that exists in the environment from intentional and unintentional RF radiators that forms the baseline above which the Intentional signal of your WLAN must exist.
- D. The extra energy radiated by access points and client devices beyond that intended for the signal.

Answer: C

Explanation:

Reference
<http://blog.prosig.com/2008/04/14/what-is-db-noise-floor-dynamic-range/>

NEW QUESTION 76

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

Answer: A

NEW QUESTION 79

When using a spectrum 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 users workspace, but the interference disappears quickly after just 2 meters. What is the most likely cause of this interference?

- A. USB 3 devices 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:

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

NEW QUESTION 80

You are evaluating a connection that states the data rate is 150 Mbps. What is the expected throughput of this connection?

- A. Less than 150 Mbps because of 802.11 overhead and contention
- B. 54 Mbps because that is the actual maximum throughput of an 802.11 connection
- C. More than 150 Mbps because of compression
- D. 150 Mbps because the data rate is equal to the throughput

Answer: A

NEW QUESTION 82

You are implementing a multi-AP WLAN and fast secure roaming is essential. Which one of the following methods is an IEEE 802.11 standard method for fast roaming?

- A. Band steering
- B. FT
- C. OKC
- D. Load balancing

Answer: B

Explanation:

Reference

<https://www.networkcomputing.com/wireless-infrastructure/wifi-fast-roaming-simplified/1993108957>

NEW QUESTION 83

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 87

What phrase defines Equivalent Isotropically Radiated Power (EIRP)?

- A. Power supplied from the transmission line to the antenna input
- B. The power output from the radio after cable losses
- C. The power output from the radio into the RF cable
- D. The highest RF signal strength that is transmitted from a given antenna

Answer: D

NEW QUESTION 89

You are troubleshooting a problem with interference from a non-802.11 device. Given that the device is not a WLAN device, you cannot use a protocol analyzer and have chosen to use a spectrum analyzer. You want to view the signal from the interfering device over time to see the activity that is generating. What common spectrum analyzer view should you use for this analysis?

- A. Waterfall/Spectrogram
- B. Real-time FFT
- C. APs
- D. Clients

Answer: A

NEW QUESTION 94

An 802.11-based network uses an AP and has several connecting clients. The clients include iPhones, iPads, laptops and one desktop. What WLAN use case is represented?

- A. WPAN
- B. Ad-hoc
- C. BSS
- D. IBSS

Answer: C

NEW QUESTION 97

A standard PoE injector is used to power an access point requiring 802.3at. CAT6 cabling is in use. What is the maximum distance supported between the access point and the Ethernet switch with the use of a midspan power injector?

- A. 100 meters
- B. 300 meters
- C. 328 meters
- D. 200 meters

Answer: A

NEW QUESTION 99

You are the network administrator for ABC Company. Your manager has recently attended a wireless security seminar. The seminar speaker taught that a wireless network could be hidden from potential intruders if you disable the broadcasting of the SSID in Beacons and configured the access points not to respond to Probe Request frames that have a null SSID field.

Your manager suggests implementing these security practices. What response should you give to this suggestion?

- A. Any tenants in the same building using advanced penetration testing tools will be able to obtain the SSID by exploiting WPA EAPOL-Key exchange
- B. This poses an additional risk of exposing the WPA key.
- C. Any 802.11 protocol analyzer can see the SSID in clear text in frames other than Beacons frame
- D. This negates any security benefit of trying to hide the SSID in Beacons and Probe Response frames.
- E. To improve security by hiding the SSID, the AP and client stations must both be configured to remove the SSID from association request and response frame
- F. Most VLAN products support this.
- G. This security practice prevents manufacturers' client utilities from detecting the SSI
- H. As a result, the SSID cannot be obtained by attackers, except through social engineering, guessing, or use of a WIPS.

Answer: B

NEW QUESTION 104

When replacing the antenna of a WLAN device with a similar antenna type that has a higher passive gain, what antenna characteristic will decrease?

- A. Range
- B. Beam width
- C. Active gain
- D. Receive sensitivity

Answer: B

NEW QUESTION 107

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

Answer: A

NEW QUESTION 112

What 802.11 PHY uses available space in very low frequency ranges that is not in use at the time by broadcast video signals?

- A. DMG
- B. SIG
- C. DSSS
- D. TVHT

Answer: C

Explanation:

<https://www.cwnp.com/802-11ac-vht-just-the-facts/>

NEW QUESTION 113

In an 802.11 2.4 GHz system, what 22 MHz channels are considered non-overlapping?

- A. 11 and 6
- B. 7 and 11
- C. 1 and 5
- D. 2 and 8

Answer: A

NEW QUESTION 114

The BSA of an AP covers the area used by the sales and marketing department. Thirty-five stations operate in this space. The users 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 119

You are reconfiguring an AP to use the short guard interval. How long will the new guard interval duration be after the change?

- A. 400 ns
- B. 10 ms
- C. 800 ns
- D. 104 ms

Answer: A

Explanation:

Reference <https://www.sonicwall.com/en-us/support/knowledge-base/170504672960493>

NEW QUESTION 121

Which one of the following is not a factor considered when calculating the Link Budget for an outdoor point-to-point WLAN bridge link?

- A. MU-MIMO capabilities of the bridges
- B. Receive antenna gain
- C. Transmit power
- D. Operating frequency

Answer: A

NEW QUESTION 125

You manage a WLAN with 100 802.11ac access points. All access points are configured to use 80 MHz channels. In a particular BSS, only 40 MHz communications are seen. What is the likely cause of this behavior?

- A. The short guard interval is also enabled.
- B. The clients are all 802.11n STAs or lower
- C. The AP is improperly configured to use only 40 MHz of the 80 MHz allocated bandwidth
- D. All clients implement single spatial stream radios

Answer: C

NEW QUESTION 126

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

- 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

Answer: C

NEW QUESTION 131

When an ACK frame is not received by the transmitting STA, what is assumed?

- A. The frame was correctly delivered
- B. The frame was not delivered and must be retransmitted
- C. The receiver is offline
- D. The receiver processed the frame, but did not respond with an ACK frame because 802.11w is enabled

Answer: B

NEW QUESTION 134

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 139

When performing a validation survey for a Multiple Channel Architecture (MCA) system in a multi-tenant building with five floors, what aspect should you, as the surveyor, keep in mind?

- A. The RF interference caused by passing airplanes supporting on-board Wi-Fi should be a prime consideration
- B. The channel reuse pattern should be three dimensional with the RF cell extending coverage of each access point to other floors
- C. The omni-directional antennas of the access points should be oriented parallel to the floor to maximize the coverage pattern across as many floors as possible
- D. The Fresnel Zone is completely blocked between floors so each floor is considered a separate site survey

Answer: B

NEW QUESTION 141

What statement about 802.11 WLAN performance is true?

- A. In modern networks, both centralized and distributed data forwarding work well for most standard office deployments
- B. In most WLANs, no special skill or tuning is required to get peak performance
- C. WLANs perform better as more wireless clients connect with each AP
- D. To get the best performance out of an AP, you should disable data rates of 72 Mbps and lower

Answer: D

NEW QUESTION 143

ABC Company is planning a point-to-multipoint 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 802.11X Authenticator?

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

Answer: C

NEW QUESTION 146

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 151

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 154

You recently purchased four laptops containing dual-band 802.11ac adapters. The laptops can connect to your 2.4 GHz network, but they cannot connect to the 5 GHz network. The laptops do not show the 5 GHz SSIDs, which are different than the 2.4 GHz SSIDs. Existing devices can connect to the 5 GHz SSIDs with no difficulty. What is the likely problem?

- A. Interference from no-Wi-Fi sources
- B. Faulty drivers
- C. DoS attack

D. Interference from other WLANs

Answer: D

NEW QUESTION 157

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