Exam Questions CWNA-107

Certified Wireless Network Administrator (CWNA)

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

NEW QUESTION 1
What primary metric of scanning can stations use to select the best AP for connectivity to the desired BSS?

A. Signal strength of AP beacons received.
B. PING latency when testing against an Internet server.
C. FCS errors in frames transmitted to and from the AP.
D. Throughput speed in Mbps.

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
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 4
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 5
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 6
You are implementing a VHT-capable AP. Which one of the following channels is available in the 802.11-2016 standard that was not available before the ratification of 802.11 ac?

A. 153
B. 161
C. 144
D. 56

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
A string of characters and digits is entered into an AP 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:
Reference
http://www.arubanetworks.com/techdocs/ArubaOS_64x_WebHelp/Content/ArubaFrameStyles/VirtualAPs/SSID

NEW QUESTION 9
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 10
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 10
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 14
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. ifconflg
B. iw phy
C. netsh wlan show device
D. iwconflg

Answer: D

NEW QUESTION 19
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

Answer: C

NEW QUESTION 22
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 25
You were previously onsite at XYZ's facility to conduct a pre-deployment RF site survey. The WLAN has been deployed according to your recommendations and you are onsite again to perform a post-deployment validation survey.
When performing this type of post-deployment RF site survey voice over Wi-Fi, what is an action that must be performed?

A. Spectrum analysis to locate and identify RF interference sources.
B. Frequency-band hopping analysis to detect improper RF channel implementations.
C. Protocol analysis to discover channel use on neighboring APs.
D. Application analysis with an active phone call on an VoWiFi handset.

Answer: A

NEW QUESTION 27
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 31
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 a network backhaul for communications across the Internet in this scenario?

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B. 802.11 bridging
C. Cellular/LTE
D. Temporary wired DSL

Answer: C

NEW QUESTION 32
What statement about 802.11 WLAN performance is true?

A. In modem 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 35
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 40
You are reporting on the RF environment in you facility. The manager asks you do describe the noise floor noted in 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: B

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

NEW QUESTION 41
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Answer: C

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

NEW QUESTION 45
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 46
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 49
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 51
An IEEE 802.11 amendment is in the daft state. What impact does this draft amendment have on the 802.11 standard?

A. No impact: Until an amendment is ratified, it does not become part of the standard.
B. Devices will be released based on the draft amendment and the draft amendment features are part of the standard.
C. The standard is changed to reflect the new capabilities as soon as an amendment enters the draft stage.
D. No impact: Draft amendments do not become part of the standard until a working group is formed.

Answer: A

NEW QUESTION 53
You are using a tool that allows you to see signal strength for all Aps in the area with a visual representation. It shows you SSIDs available and the security settings for each SSID. It allows you to filter by frequency band to see only 2.4 GHz networks or only 5 GHz networks. No additional features are available. What kind of application is described?

A. Protocol analyzer
B. Site survey utility
C. Spectrum analyzer
D. WLAN scanner tool

Answer: D

NEW QUESTION 56

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

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 57
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 58
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 63
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

Answer: A

NEW QUESTION 64
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 68
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 settings, channels supported, and more?

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

Answer: D

NEW QUESTION 71
You are attempting to locate the cause of a performance problem in two WLAN cells in a mostly overlapping coverage area. You note that one AP is on channel 1 and the other is on channel 2. When you document your findings, what term do you use to describe the problem in this configuration?

A. Bluetooth interference
B. Non-Wi-Fi interference
C. CCI
D. ACI

Answer: CD

NEW QUESTION 73
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 76
In a WALN security, what authentication method always creates Layer2 dynamic encryption keys?

A. Shared Key
B. WEP
C. HTTPS captive portal
D. EAP-TLS

Answer: B

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 82
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A. Bluetooth interference
B. Non-Wi-Fi interference
C. CCI
D. ACI

Answer: C

NEW QUESTION 84
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 86
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 88
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 92

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