

# CWNA-107<sup>Q&As</sup>

Certified Wireless Network Administrator

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**QUESTION 1**

What fact is true regarding controllers and Aps in a split-MAC architecture?

- A. Using centralized data forwarding, frames leaving the Aps are never tagged Ethernet frames with VLAN identifiers
- B. An IP tunnel is established between the AP and controller for AP management and control functions
- C. With 802.1X/EAP security, the AP acts as the supplicant and the controller acts as the authenticator
- D. Management and data frames must be processed locally by the AP, while control frames are sent to the controller

Correct Answer: B

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**QUESTION 2**

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

Correct Answer: C

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**QUESTION 3**

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

Correct Answer: D

Reference

<http://setup-wireless.blogspot.com/2008/11/wireless-hidden-node.html>

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#### QUESTION 4

You are reporting on the RF environment in your facility. The manager asks you do 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.

Correct Answer: C

Reference

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

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#### QUESTION 5

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?

- 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.

Correct Answer: A

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#### QUESTION 6

In WLAN security, what authentication method always creates Layer 2 dynamic encryption keys?

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

Correct Answer: B

Reference <https://books.google.com.pk/books?id=0ZWLn57EdpsCandpg=PA142andlpg=PA142anddq=WLAN+security>,

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%20creates%20Layer%20%20dynamic%20encryption%20keysandf=false

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#### QUESTION 7

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

Correct Answer: A

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#### QUESTION 8

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

Correct Answer: A

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#### QUESTION 9

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

Correct Answer: B

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**QUESTION 10**

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

Correct Answer: A

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**QUESTION 11**

When considering data rates available in HT and VHT PHY 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 drives

C. The guard interval D. The height of the antennas

Correct Answer: C

Reference <https://arxiv.org/pdf/1702.03257.pdf>

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**QUESTION 12**

When antenna gain is reported in dBI, the gain of the antenna is compared to what theoretical antenna?

A. Yagl

B. Dipole

C. Rubber ducky

D. Isotropic radiator

Correct Answer: D

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<https://www.cwnp.com/forums/posts?postNum=292616>

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### QUESTION 13

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

Correct Answer: B

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### QUESTION 14

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

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### QUESTION 15

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

Correct Answer: D

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