



# CWNA-108<sup>Q&As</sup>

Certified Wireless Network Administrator

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#### QUESTION 1

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

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#### QUESTION 2

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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#### QUESTION 3

What is the final step in an effective troubleshooting process?

- A. Document the results
- B. Disable the WLAN
- C. Notify the users of problem resolution
- D. Verify the solution

Correct Answer: A

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#### QUESTION 4

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

Correct Answer: D

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#### QUESTION 5

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

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#### QUESTION 6

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

Correct Answer: C

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

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#### QUESTION 7

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

Correct Answer: A

Reference [https://www.cwnp.com/uploads/802-11s\\_mesh\\_networking\\_v1-0.pdf](https://www.cwnp.com/uploads/802-11s_mesh_networking_v1-0.pdf)

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### QUESTION 8

Which one of the following 802.11 PHYs is more likely to be used in an industrial deployment but not likely to be used in standard office deployments?

A. SIG

B. VHT

C. OFDM

D. HT

Correct Answer: B

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### QUESTION 9

You administer a small WLAN with nine access point. As a small business, you do not run a RADIUS server and use WPA2-Personal for security. Recently, you changed the passphrase for WPA2-personal in all Aps and clients. Several users are now reporting the inability to connect to the network at time and it is constrained to one area of the building. When using scanner, you see that the AP covering that area is online

A. The AP that covers the problem area requires a firmware update

B. The clients are improperly configured

C. The AP that covers the problem area has failed

D. The AP that covers the problem area is improperly configured

Correct Answer: A

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### QUESTION 10

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

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Correct Answer: D

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### QUESTION 11

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 disabled 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 802.11 protocol analyzer can see the SSID in clear text in frames other than Beacons frames. This negates any security benefit of trying to hide the SSID in Beacons and Probe Response frames.
- B. 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 frames. Most WLAN products support this.
- C. Any tenants in the same building using advanced penetration testing tools will be able to obtain the SSID by exploiting WPA EAPOL-Key exchanges. This poses an additional risk of exposing the WPA key.
- D. This security practice prevents manufacturers' client utilities from detecting the SSID. As a result, the SSID cannot be obtained by attackers, except through social engineering, guessing, or use of a WIPS.

Correct Answer: A

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### QUESTION 12

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

Correct Answer: C

[http://www.arubanetworks.com/techdocs/ArubaOS\\_64x\\_WebHelp/Content/ArubaFrameStyles/VirtualAPs/SSID\\_Profiles.htm](http://www.arubanetworks.com/techdocs/ArubaOS_64x_WebHelp/Content/ArubaFrameStyles/VirtualAPs/SSID_Profiles.htm)

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### QUESTION 13

What factor is likely to cause the least impact on the application layer throughput of an 802.11n client station in a 2.4 GHz HT BSS?

- A. Increasing or decreasing the number of spatial streams in use by the client station and AP
- B. Implementing Fast BSS Transition (FT) for roaming



- C. Implementation of several other clients in the same BSS using 802.11g radios
- D. RF interference from more than 10 nearby Bluetooth transmitters

Correct Answer: B

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#### QUESTION 14

You are tasked with performing a throughput test on the WLAN. The manager asks that you use open source tools to reduce costs. What open source tool is designed to perform a throughput test?

- A. iPerf
- B. PuTTY
- C. IxChariot
- D. Python

Correct Answer: A

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#### QUESTION 15

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.

Correct Answer: B

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