



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

Certified Wireless Network Administrator

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### QUESTION 1

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

Correct Answer: A

Reference [https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-1/Enterprise-Mobility-8-1-Design-Guide/Enterprise\\_Mobility\\_8-1\\_Deployment\\_Guide/Chapter-11.pdf](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-1/Enterprise-Mobility-8-1-Design-Guide/Enterprise_Mobility_8-1_Deployment_Guide/Chapter-11.pdf)

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### QUESTION 2

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.

Correct Answer: A

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### QUESTION 3

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.

Correct Answer: A

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#### QUESTION 4

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

Correct Answer: C

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#### QUESTION 5

An 802.11 WLAN transmitter that emits a 50 mW signal is connected to a cable with 3 dB of loss. The cable is connected to an antenna with 16 dBi of gain.

What is the EIRP power output?

- A. 2 W
- B. 250 mW
- C. 1000 mW
- D. 500 mW

Correct Answer: C

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#### QUESTION 6

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 7

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

Correct Answer: A

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### QUESTION 8

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

Correct Answer: D

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### QUESTION 9

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 10

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

Correct Answer: A

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#### QUESTION 11

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

Correct Answer: C

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#### QUESTION 12

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

Correct Answer: D

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#### QUESTION 13

An RF signal sometimes bends as it passes through some material other than free space. What is the term that describes this behavior?

- A. Reflection
- B. Refraction
- C. Scattering
- D. Warping

Correct Answer: B

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#### QUESTION 14

Which directional antenna types are commonly used by indoor Wi-Fi devices in a MIMO multiple spatial stream implementation?

- A. Dish and grid
- B. Dipole and yagi
- C. Grid and sector
- D. Patch and panel

Correct Answer: B

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#### QUESTION 15

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

Correct Answer: A

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