

# PW0-105<sup>Q&As</sup>

Certified Wireless Network Administrator (CWNA)

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## QUESTION 1

What statement is true concerning the use of Orthogonal Frequency Division Multiplexing (OFDM) in IEEE

802.11 WLANs?

- A. 802.11a and 11n use six (6) "pilot" subcarriers as a reference for the receiver to detect frequency and phase shifts of the signal.
- B. 802.11a/g/n OFDM includes several combinations of modulation and coding to achieve data rates from 1-600 Mbps.
- C. With 802.11a OFDM, 16-QAM provides either 48 or 54 Mbps data rates, depending upon coding rates.
- D. 802.11n HT-OFDM utilizes 256-QAM, which increases the data rate from 54 Mbps (with 64-QAM) up to 65 Mbps.
- E. In 802.11a OFDM, forty-eight (48) subcarriers are used as parallel symbol transmission paths to carry data.

Correct Answer: E

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## QUESTION 2

In a long-distance RF link, what statement about Fade Margin is true?

- A. Fade Margin is an additional pad of signal strength designed into the RF system to compensate for unpredictable signal fading.
- B. The Fade Margin of a long-distance radio link should be equivalent to the receiver's antenna gain.
- C. A Fade Margin is unnecessary on a long-distance RF link if more than 80% of the first Fresnel zone is clear of obstructions.
- D. The Fade Margin is a measurement of signal loss through free space, and is a function of frequency and distance.

Correct Answer: A

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## QUESTION 3

The client devices that connect to your network include a mix of dual-band 802.11n, single-band 802.11b/g, and some 802.11a/g. Your access points are configured with the same SSID on both the 2.4 and 5 GHz bands. The APs are also configured to prioritize client connectivity to 5 GHz. How does an AP perform band steering to encourage clients to use 5 GHz?

- A. When the client sends a probe request in the 2.4 GHz band, the AP may reply with information about the 5 GHz BSS.
- B. The AP may ignore the initial probe requests or 802.11 authentication requests sent in the 2.4 GHz band by dual-band clients
- C. The AP may allow an 802.11 association with the client in the 2.4 GHz band, then send unicast channel switch announcements to the client announcing the 5 GHz channel as the new channel.

D. After receiving probe request frames from the same client in both bands, the AP may send an association request frame to the client in the 5 GHz band.

E. The AP may allow an 802.11 association with the client in the 2.4 GHz band, then the AP may perform a transparent client handoff by transferring the client's MAC address to the 5 GHz radio.

Correct Answer: B

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## QUESTION 4

Given: XYZ Company is planning to install a new 802.11 WLAN, but wants to upgrade its wired infrastructure first to provide the best user experience possible. XYZ 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 802.3af PoE.

After hearing this information, what immediate concerns do you note?

A. VoIP phones and 802.11 access points should not be powered by the same edge switch due to distortion.

B. The edge Ethernet switches will need to support 802.3at PoE in order to support both access points and VoIP phones.

C. If the switches are in optimal locations for VoIP phones, they are likely to be suboptimal locations for 802.11 APs.

D. The power budget in the edge switches must be carefully planned and monitored based on the number of supported PoE devices.

Correct Answer: D

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## QUESTION 5

Which data rate is supported by 802.11g radios that is not supported by 802.11a radios?

A. 9 Mbps

B. 11 Mbps

C. 12 Mbps

D. 54 Mbps

E. 65 Mbps

F. 130 Mbps

Correct Answer: B

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## QUESTION 6

What feature(s) are most likely to be supported by 802.11 enterprise-class WLAN controllers? (Choose 4)

- A. Link aggregation / port trunking
- B. 802.1p and DSCP QoS
- C. BGP and Frame Relay
- D. Captive web portals
- E. IGMP snooping

Correct Answer: ABDE

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## QUESTION 7

What answers correctly complete the following sentence? \_\_\_\_\_ and \_\_\_\_\_ carrier sense functions are used to determine whether the wireless medium is idle or busy. (Choose 2)

- A. Passive
- B. Pseudo-random
- C. Virtual
- D. Active
- E. Physical
- F. Interframe
- G. Vector

Correct Answer: CE

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## QUESTION 8

Which IEEE 802.11 physical layer (PHY) specifications include support for and compatibility of both OFDM and HR/DSSS? (Choose 2)

- A. HR/DSSS (802.11b)
- B. OFDM (802.11a)
- C. ERP (802.11g)
- D. HT (802.11n)
- E. CCK (802.11b)
- F. PBCC (802.11g)

Correct Answer: CD

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## QUESTION 9

What statements about the SSID are true? (Choose two)

- A. The SSID is a security session identifier used in RSNs.
- B. The SSID must be included in an association request frame.
- C. The SSID is an alphanumeric value assigned to device manufacturers by the IEEE.
- D. The SSID is a pseudo-random number assigned to each client by an AP.
- E. The SSID is an alphanumeric value with a maximum length of 32 octets.
- F. When configuring a new network, creating an SSID is optional.

Correct Answer: BE

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## QUESTION 10

What problems may exist for a multiple channel architecture (MCA) WLAN when its APs are all operating at full power (typically 100mW)? (Choose two)

- A. Wi-Fi enabled voice handsets with low transmit power can experience asynchronous downlink and uplink performance.
- B. WLAN client stations can experience the hidden node problem when located near each other within the same cell.
- C. The mismatched power between WLAN client stations and APs violates regulatory and IEEE signal quality requirements.
- D. Cell size may be too large, causing co-channel interference to adjacent cells and reducing system capacity.
- E. APs operating in the 2.4 GHz band would prevent microwave ovens and analog video cameras from functioning.

Correct Answer: AD

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## QUESTION 11

When planning an access point deployment that utilizes Power over Ethernet (PoE) switches at the network edge, what design decision could adversely affect the operation of 802.3af APs?

- A. All ports on the Ethernet switch will be supporting Class 3 PoE powered devices.
- B. Some APs are connected to a PoE switch and are also receiving power from an AC outlet.
- C. The Ethernet switch's uplink ports are not connected to an 802.3af-compliant core or distribution Ethernet switch.
- D. A gigabit Ethernet switch port supporting an 802.11a/g AP auto-negotiates to 100 Mbps.
- E. The installation team is not informed that PoE support will reduce the recommended maximum UTP cabling length

from 100m to 50m.

Correct Answer: A

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## QUESTION 12

What statement about the IEEE 802.11e QoS facility is true?

- A. 802.11 QoS is achieved by giving high priority queues a statistical advantage at winning contention.
- B. Four 802.1p user priorities are mapped to eight 802.11 transmit queues.
- C. When the Voice queue has frames awaiting transmission, no data will be transmitted from the Best Effort queue.
- D. To improve efficiency, Block Acknowledgments are required for Voice and Video WMM queues.
- E. 802.11 control frames are assigned to the 802.11 EF priority queue.

Correct Answer: A

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## QUESTION 13

What item is essential for performing a manual RF site survey for a warehouse facility?

- A. A facility map with an explanation of applications used in each area
- B. I-Beam mounting kits for hanging temporary access points
- C. High-gain omni antennas for APs mounted high on warehouse ceilings
- D. Predictive site survey software that supports directional antennas
- E. NEMA enclosures that protect APs used for the survey

Correct Answer: A

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## QUESTION 14

What statement best describes the manual RF site survey report?

- A. It is a series of notes taken during the interview with the network manager and given to the site survey project manager.
- B. It is a one-page network inspection summary used to create a certificate of network compliance.
- C. It contains the results from the RF coverage, capacity, and interference analysis.
- D. It is an internal document used by the site surveying firm for network deployment, and is not usually shown to the client.
- E. It states the customer requirements, business justification, and a detailed budget for the WLAN.

Correct Answer: C

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## QUESTION 15

What statement describes the authorization component of a AAA implementation?

- A. Verifying that a user is who he says he is
- B. Validating client device credentials against a database
- C. Logging the details of user network behavior in order to review it at a later time
- D. Granting access to specific network services according to a user profile
- E. Implementing a WIPS as a full-time monitoring solution to enforce policies

Correct Answer: D

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