



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

Certified Wireless Network Administrator

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**QUESTION 1**

An 802.11-based network uses an AP and has several connecting clients. The clients include iPhones, iPads, laptops and one desktop. What WLAN use case is represented?

- A. WPAN
- B. Ad-hoc
- C. BSS
- D. IBSS

Correct Answer: C

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**QUESTION 2**

You are using a site survey tool for post-implementation validation. You have installed the appropriate adapter driver and imported a floor plan. Now, you want to take the next step in proper tool use. What must you do before gathering survey data after the floor plan is imported?

- A. Install iPerf
- B. Install WinPCAP
- C. Calibrate the floor plan
- D. Nothing, you can simply start capturing signal readings

Correct Answer: C

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**QUESTION 3**

What statement about 802.11 WLAN performance is true?

- A. In modern 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

Correct Answer: D

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**QUESTION 4**

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

[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 5

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

Correct Answer: C

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#### QUESTION 6

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 7

You administer a WLAN that offers a guest SSID of GUESTNWORK. Users connect to the GUESTNWORK SSID, but report that they cannot browse the Internet. The devices simply report no Internet connection. What common problem causes this scenario?

- A. NTP issues
- B. Hardware issues



- C. IP routing issues
- D. Captive portal issues

Correct Answer: C

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#### QUESTION 8

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

Correct Answer: A

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#### QUESTION 9

You manage a WLAN with 100 802.11ac access points. All access points are configured to use 80 MHz channels. In a particular BSS, only 40 MHz communications are seen. What is the likely cause of this behavior?

- A. The short guard interval is also enabled.
- B. The clients are all 802.11n STAs or lower
- C. The AP is improperly configured to use only 40 MHz of the 80 MHz allocated bandwidth
- D. All clients implement single spatial stream radios

Correct Answer: C

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#### QUESTION 10

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

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

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#### QUESTION 11

What is always required to establish a high quality 2.4 GHz RF link at a distance of 3 miles (5 kilometers)?

- A. Grid antennas at each endpoint
- B. A Fresnel Zone that is at least 60% clear of obstructions
- C. A minimum antenna gain of 11 dBi at both endpoints
- D. Minimum output power level of 2 watts

Correct Answer: B

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#### QUESTION 12

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

Correct Answer: D

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#### QUESTION 13

What 802.11 PHY uses available space in very low frequency ranges that is not in use at the time by broadcast video signals?

- A. DMG
- B. SIG
- C. DSSS
- D. TVNT

Correct Answer: C

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#### QUESTION 14

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

Correct Answer: A

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#### QUESTION 15

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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