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QUESTION 1

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. Beam width
- B. Range
- C. Active gain
- D. Receive sensitivity

Correct Answer: A

QUESTION 2

You are implementing a VHT-capable AP. Which one of the following channels is available in the 802.11ac amendment to the 802.11-2012 standard, which was not available in the standard before this amendment?

- A. 153
- B. 144
- C. 161
- D. 56
- E. 48

Correct Answer: B

QUESTION 3

What distinguishes an independent basic service set (IBSS) from an infrastructure basic serviceset (BSS)?

- A. An IBSS does not have a distribution system (DS), but a BSS does.
- B. An IBSS does not require beacon frames, but a BSS does.
- C. An IBSS does not support 802.11 authentication or association, but a BSS does.
- D. An IBSS does not support any 802.11ac enhancements, but a BSS does.

Correct Answer: A

QUESTION 4

What component of the 802.11 standard allows stations to reserve access to the RF medium for a specified period of



time?

- A. Short guard intervals
- B. DTIMInterval
- C. Listen Interval
- D. Probe Request frames
- E. RTS or CTS frames

Correct Answer: E

QUESTION 5

In an infrastructure Basic Service Set (BSS), how does the passive scanning process occur?

- A. Access points broadcast Beacons on all channels of each radio within the regulatory domain. Nearby client stations record information found in the Beacons for use in the association process.
- B. Client stations broadcast Probe Request frames on all supported channels in the regulatory domain. Nearby access points respond with Probe Response frames. Client stations record information in the Probe Response frames for use in the association process.
- C. Client stations broadcast Probe Request frames on the single channel for which they are programmed. Nearby access points respond on that channel with Probe Response frames. Client stations record information found in the Probe Response frames for use in the association process.
- D. Access points broadcast Beacons on a single channel for which they are programmed. Nearby client stations listen for Beacon frames and record information found in the Beacons for use in the association process.

Correct Answer: D

QUESTION 6

What terms accurately complete the following sentence?

The IEEE 802.11-2012 standard specifies mandatory support of the _____ cipher suite for Robust Security Network Associations, and optional use of the _____ cipher suite, which is designed for use with pre-RSNA hardware.

- A. CCMP, TKIP
- B. 802.1X/EAP, WEP
- C. TLS, SSL
- D. RC5, RC4

Correct Answer: A



QUESTION 7

When compared with legacy Power Save mode, how does VHT TXOP power save improve battery life for devices on a WLAN?

- A. VHT TXOP power save allows stations to enter sleep mode and legacy Power Save does not.
- B. VHT TXOP power save uses the partial AID in the preamble to allow clients to identify frames targeted for them.
- C. Legacy Power Save mode was removed in the 802.11ac amendment.
- D. VHT TXOP power save allows the WLAN transceiver to disable more components when in a low powerstate.

Correct Answer: B

QUESTION 8

Which one of the following channels can be used for VHT transmissions?

- A. 11
- B. 6
- C. 48
- D. 1

Correct Answer: D

QUESTION 9

What answers correctly complete the following sentence?

_____ and _____ carrier sense functions are used to determine if the wireless medium is busy.
(Choose 2)

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

Correct Answer: CE



QUESTION 10

What term correctly completes the following sentence?

802.11a/b/g used a mandatory 800ns guard interval. 802.11n introduced an optional short 400ns guard interval. Guard intervals (GI) are necessary in OFDM to reduce the likelihood of interference between two consecutive _____.

- A. Frames
- B. Packets
- C. Bits
- D. Symbols

Correct Answer: D

QUESTION 11

The IEEE 802.11-2012 standard requires VHT capable devices to be backward compatible with devices using which other 802.11 physical layer specifications (PHYs)? (Choose 2)

- A. HT
- B. OFDM
- C. HR/DSSS
- D. ERP-PBCC
- E. DSSS-OFDM

Correct Answer: AB

QUESTION 12

What problems may exist for a multiple channel architecture (MCA) WLAN when its APs are all operating at full power (typically 100mW)? (Choose 2)

- 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



QUESTION 13

You are an independent contractor, hired to perform an indoor site survey and network design for Luxury Full Service Hotels International. The network will support hotel staff and guest users. You are interviewing the network manager to determine business, performance, and security requirements for the future 802.11 WLAN.

What questions should you ask the IT manager? (Choose 2)

- A. What data cabling is currently installed in the rooms and throughout the hotel?
- B. How much RF loss do you expect between hotel rooms?
- C. Who installed your existing wired network?
- D. What types of applications will be used by the hotel staff?
- E. On what frequency do the microwave ovens operate in the hotel suites?

Correct Answer: AD

QUESTION 14

What statement about 802.11 WLAN performance is true?

- A. Use of larger frame sizes results in greater throughput in low interference environments.
- B. BSS support for 65 KB A-MPDUs will increase the maximum data rate available to client devices.
- C. In 802.11ac, changing the security mechanism from WPA2-Personal to WPA2-Enterprise will enable the VHT MCS rates.
- D. Compared to an Independent BSS, an Infrastructure BSS can provide almost twice the throughput between wireless nodes.

Correct Answer: A

QUESTION 15

In an enterprise WLAN, what condition will prevent a dual-band VHT/HT client device from performing a fast and seamless transition (i.e. latency-sensitive applications are not disrupted) between two access points that are managed by the same WLAN controller?

- A. The current AP is using channel 1 and the new AP is using channel 40.
- B. The SSID of the current AP does not match the SSID of the new AP.
- C. The current AP supports only HT and the new AP is VHT capable.
- D. The access points are hiding the SSID in Beacons and Probe Response frames.

Correct Answer: B



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