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**QUESTION 1**

ABC Company has a 2.4 and 5 GHz WLAN deployment supporting four bands in the 5 GHz range (UNII 1, UNII 2, UNII 2e, and UNII 3). DFS functionality is enabled as required by the regulatory domain. Band steering is also enabled to encourage dual-band clients to use frequency bands with more capacity.

Your performance analysis shows that many dual-band VoWiFi client devices will move back and forth between 2.4 and 5 GHz as the user roams throughout the building. All APs have 2.4 and 5 GHz radios enabled. This "band hopping" behavior is viewed by network staff to be undesirable. What is the most likely cause of the unpredictable client band selection behavior?

- A. Interference from 5 GHz radar sources has increased frame corruption and retries on channels 36-48 in UNII 1.
- B. 5 GHz frequencies offer better RF penetration than 2.4 GHz, but 2.4 GHz offers more voice call capacity and lower latency than 5 GHz.
- C. The voice client does not support DFS, and therefore experiences some 5 GHz coverage holes as it moves through the network.
- D. The client's band selection algorithm prefers 5 GHz, but band steering behavior usually steers 75- 85% of client devices to 2.4 GHz.

Correct Answer: C

QUESTION 2

When a client moves to a new BSS within an ESS, what steps are part of the 802.11 reassociation process? (Choose two)

- A. The client station transmits a Reassociation Request frame to its current access point.
- B. The current access point informs the IP gateway of the reassociation.
- C. The current access point triggers the client's reassociation service.
- D. The new access point transmits a Reassociation Response to the client station with a status value.
- E. The client and new access point create unicast encryption keys.
- F. The client station transmits a deauthentication frame to the current access point.

Correct Answer: DE

QUESTION 3

Given: When designing a WLAN infrastructure implementation for high client density at a public venue such as a conference or stadium, what are common best practices? (Choose 2)

- A. Use high-gain omnidirectional antennas to improve SNR
- B. Use directional antennas to isolate the RF propagation



- C. Configure APs to transmit at or near their maximum power setting
- D. Use WPA2-Personal security for ease of deployment
- E. Disable 802.11n MCS rates to prevent high overhead protection mechanisms
- F. Implement a band steering feature for dual-band clients

Correct Answer: BF

QUESTION 4

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

QUESTION 5

What 802.11n technologies require MIMO support on both the transmitter and receiver? (Choose 2)

- A. Spatial multiplexing
- B. Transmit beamforming
- C. Maximal ratio combining
- D. Space-time block coding
- E. Cyclic shift diversity
- F. Short guard intervals

Correct Answer: AD



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