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QUESTION 1

A hospital environment was designed to guarantee RF coverage at or better than -67 dBm in the 5 GHz spectrum. The customer mandates that RRM be used for DCA and TPC in both bands. After deployment, why do many of the legacy 802.11b/g devices have difficulty maintaining connectivity?

A. Excessive co-channel interference in the 2.4 GHz band exists.

B. Excessive overlapping channels in the 2.4 GHz band exists.

C. TPC drastically reduces Tx power in the 2.4 GHz band.

D. TCP drastically increases Tx power in the 2.4 GHz band.

Correct Answer: C

QUESTION 2

IEEE 802.11r-2008 or fast BSS transition (FT), also called "fast roaming," Which 802.11 standard performs the PTK calculations in advance to enable fast client roaming?

A. 802.1 11r

B. 802.1 11i

C. 802.1 11k

D. 802 1 11w

Correct Answer: A

802.11r, which is the IEEE standard for fast roaming, introduces a new concept of roaming where the initial handshake with the new AP is done even before the client roams to the target AP, which is called Fast Transition (FT). The initial handshake allows the client and APs to do the Pairwise Transient Key (PTK) calculation in advance. These PTK keys are applied to the client and AP after the client does the reassociation request or response exchange with new target AP. https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/80211r-ft/b-80211r-dg.html

QUESTION 3

Which three options are benefits of U-APSD? (Choose three.)

A. optimized power-save mode periods

B. increased call capacity

C. bandwidth reservation

D. synchronization of the transmission and reception of voice frames

E. efficient roaming

F. priority bandwidth and polling

Correct Answer: ABD

Unscheduled automatic power-save delivery (U-APSD) is a feature that has two key benefits: The primary benefit of U-APSD is that it allows the voice client to synchronize the transmission and reception of voice frames with the AP, thereby allowing the client to go into power-save mode between the transmission/reception of each voice frame tuple. The WLAN client frame transmission in the access categories supporting U-APSD triggers the AP to send any data frames queued for that WLAN client in that AC. A U-APSD client remains listening to the AP until it receives a frame from the AP with an end-of-service period (EOSP) bit set. This tells the client that it can now go back into its power-save mode. This triggering mechanism is considered a more efficient use of client power than the regular listening for beacons method, at a period controlled by the delivery traffic indication map (DTIM) interval, because the latency and jitter requirements of voice are such that a WVoIP client would either not be in power-save mode during a call, resulting in reduced talk times, or would use a short DTIM interval, resulting in reduced standby times. The use of U-APSD allows the use of long DTIM intervals to maximize standby time without sacrificing call quality. The U-APSD feature can be applied individually across access categories, allowing U-APSD can be applied to the voice ACs in the AP, but the other ACs still use the standard power save feature. The secondary benefit of this feature is increased call capacity. The coupling of transmission buffered data frames from the AP with the triggering data frame from the WLAN client allows the frames from the AP to be sent without the accompanying interframe spacing and random backoff, thereby reducing the contention experience by call.

Reference: http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/vowlan/41dg/vowlan41dg-book/vowlan_ch2.html#wp1045982

QUESTION 4

Which option will allow the maximum 2.4 GHz channel usage for a survey and voice deployment in the ETSI domain?

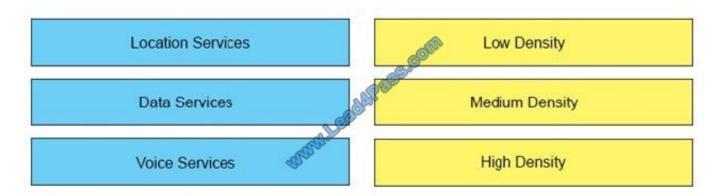A. 1, 6, 11

B. 1, 5, 9, 13

C. 1, 6, 9, 14

D. 1, 6, 11, 14

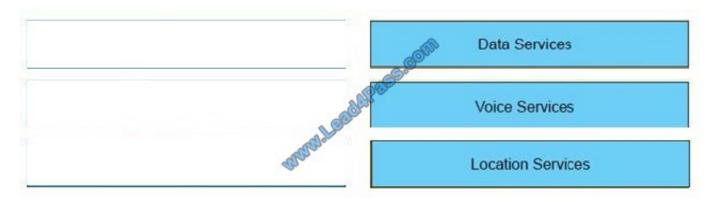Correct Answer: A

QUESTION 5

Drag and drop the relative AP densities for data, voice and location services from the left to the appropriate categories on the right.

Select and Place:

Location Services		Low Density	4 / 5
Data Services		Medium Density	
Voice Services		High Density	

Correct Answer:

		Data Services
		Voice Services
		Location Services

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