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QUESTION 1

What is the purpose of Friis transmission equation $[(LdB) = 20 \log(d) + 20 \log(f) - 27.55]$?

- A. Calculate earth bulge to determine minimum antenna height
- B. Calculate receive sensitivity for an 802.11 radio/antenna pair
- C. Calculate RF path loss in free space
- D. Calculate the loss experienced between the intentional radiator and antenna
- E. Calculate the minimum voltage requirements for lightning suppression systems

Correct Answer: C

QUESTION 2

What statement is true of a WLAN design that supports Real-Time Location Services (RTLS) with 802.11 RFID asset tags? (Choose 2)

- A. When passive tags are implemented, the AP density should be increased by 25% to make up for the shorter transmit range of passive tags as compared to active tags.
- B. Active RFID tags periodically transmit 802.11 beacon management frames that must be synchronized with the AP for proper location of the tagged asset.
- C. With passive tags, AP transmit gain should be increased to supply extra power for near-field coupling or backscatter modulation from the tag to the AP since the passive tag lacks an internal power source.
- D. Passive tags do not communicate directly with the WLAN infrastructure, but instead they rely on the tag interrogator to communicate tag information to the infrastructure's location tracking server/database.
- E. Active tags transmit directly to the APs and may not require 802.11 authentication and association to pass data traffic to the RTLS engine.
- F. When tracking assets with passive RFID tags, some APs should be moved, or additional APs be added, to provide more accurate triangulation and location services.

Correct Answer: DE

QUESTION 3

When deploying long-distance 802.11 bridge links (10 miles / 16 km), what parameter may be critical for improving data flow by reducing retries caused by the long distances?

- A. The sequence control field value
- B. The acknowledgement timeout threshold



- C. The minimum transmit data rate value
- D. The CTS-to-self threshold
- E. The Beacon interval
- F. The PHY parameter set field

Correct Answer: B

QUESTION 4

Excessive uplink RTP frame retransmissions can result in . (Choose 3)

- A. Deauthentication of the transmitter by the receiver
- B. Lowering of the data transmission rate by the transmitting station
- C. MOS scores in excess of 5
- D. Head-of-Line blocking at the receiver
- E. Shortened battery life of a transmitting station
- F. Increased jitter in a VoWiFi connection

Correct Answer: BEF

QUESTION 5

When a WLAN controller transmits an Ethernet frame that has an IEEE 802.11 frame as its payload to a lightweight AP, what type of QoS marks can be applied to the Ethernet frame and/or its payload? (Choose 3)

- A. IEEE 802.1Q PCP marks in the Ethernet frame header
- B. User Priority marks in the IEEE 802.11 frame header
- C. Throughput subscription marks in the Ethernet frame header
- D. MPLS tags from the Label Edge Router (LER)
- E. DSCP marks to the ToS bits in the encapsulating IP packet header
- F. RSVP tag if RTP is the payload of the IEEE 802.11 frame

Correct Answer: ABE
