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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

As you plan a WLAN upgrade, you have assessed the network requirements and data signatures of your applications. One of the popular applications used on your network requires high bandwidth and low to medium Wi-Fi loss, but can tolerate moderate latency and jitter.

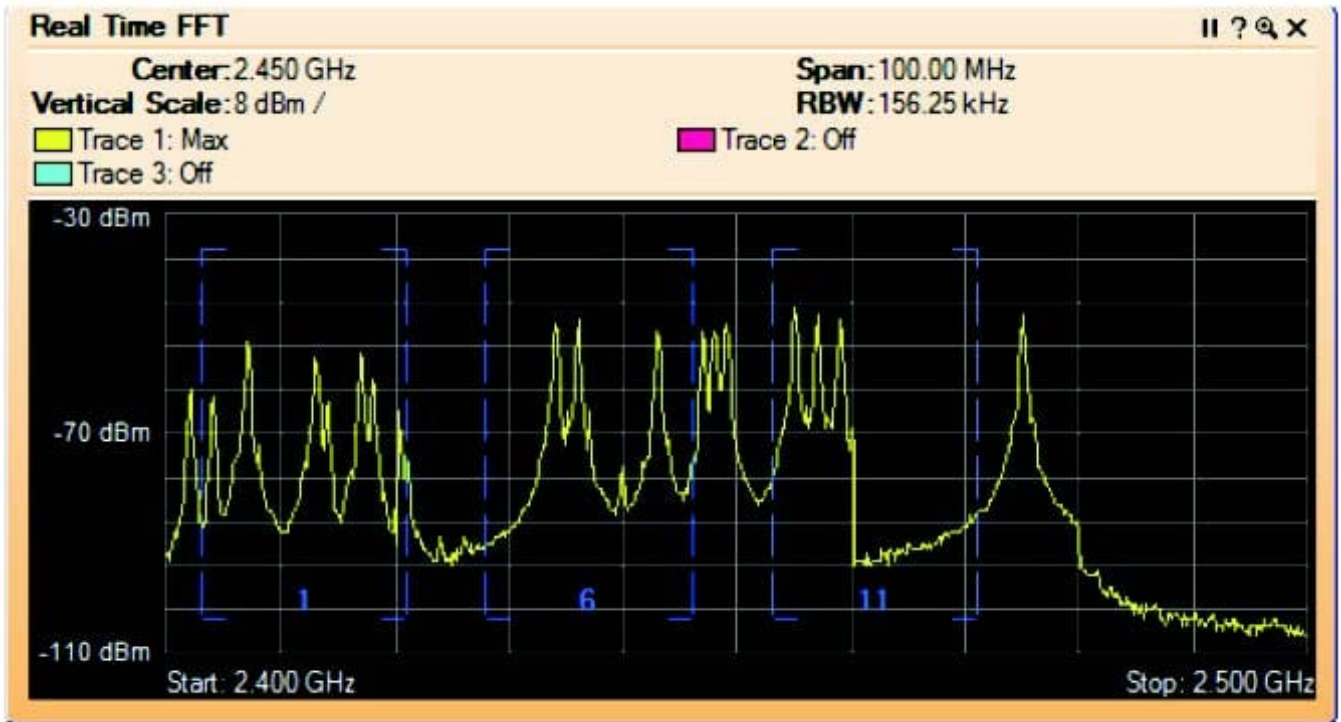
What application matches this description?

- A. FTP
- B. Email
- C. Skype chat
- D. Voice
- E. Video conferencing
- F. Video-on-demand

Correct Answer: F

QUESTION 3

A Layer 1 sweep was performed at a customer location, and you are asked to review a capture taken during the survey.



What is the meaning of the chart shown in the exhibit and how should it be interpreted?

- A. Real Time FFT means Real Time First Fundamental Trace and shows the value of the first signal detected on each frequency at each sweep interval.
- B. Real Time FFT means Real Time Fast Frequency Timing and shows the RF pulses measured by the Layer 1 sweep tool.
- C. Real Time FFT means Real Time Fast Fourier Transform and shows the max value of the signal detected on each frequency in real time.
- D. Real Time FFT means Real Time Frequency Fundamental Texture and shows the value of the noise background generated by the card used to perform the Layer 1 sweep.

Correct Answer: C

QUESTION 4

To achieve a 450 Mbps MCS, what 802.11n features (from the numbered list below) are required?

- 1.
Frame aggregation
- 2.
Short GI

3.

40 MHz channels

4.

2 spatial streams

5.

3 spatial streams

6.

Transmit beamforming (TxBF)

A. 1, 2, 3, 4

B. 1, 2, 3, 5

C. 1, 2, 3, 4, 6

D. 1, 2, 3, 5, 6

E. 2, 3, 4

F. 2, 3, 5

Correct Answer: F

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

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