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**QUESTION 1**

When preparing a floor plan graphic for use in predictive and manual site surveying, what calibration method will lead to the most accurate and reliable RF data?

- A. Use the known size of a small object, such as a ceiling tile, and use a single instance of this object (e.g. a single ceiling tile) to scale the floor plan.
- B. Measure the width of an actual office doorway with a tape measure and use this value to calibrate against a doorway graphic.
- C. Use the longest available measurement (like a straight exterior wall) to calibrate the graphic's scale.
- D. Calibrate the ceiling height of the floor plan first, then the survey software should be able to auto-calibrate the X and Y planes of the graphic.
- E. With properly formatted .bmp and .png graphics, the site survey software should be able to extract the scale directly from the graphic data during import.

Correct Answer: C

QUESTION 2

What is a valid 40 MHz channel configuration in the 2.4 GHz ISM band where channels 1-11 are permitted? (Choose 2)

- A. 4 (primary), +1 (secondary)
- B. 4 (primary), -1 (secondary)
- C. 8 (primary), +1 (secondary)
- D. 1 (primary), 6 (secondary)
- E. 11 (primary), 6 (secondary)
- F. 1 (primary), 5 (secondary)

Correct Answer: AF

QUESTION 3

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 4

Given: You are evaluating the theoretical and real-world RF gain benefits of transmit and receive features introduced by 802.11n with MIMO. This exercise allows you to quantify the feature's value in a real-world environment.

What is the maximum theoretical signal gain of chip-based TxBF and MRC (as features) when compared to the same AP using only a single antenna for transmit and receive (effectively simulating a 1x1 chip)?

- A. 2 Rx or Tx chains = 3 dBi gain 3 Rx or Tx chains = approx 5 dBi gain 4 Rx or Tx chains = 6 dBi gain
- B. 2 Rx or Tx chains = 1 dBi gain 3 Rx or Tx chains = 2 dBi gain 4 Rx or Tx chains = 3 dBi gain
- C. 2 Rx or Tx chains = 3 dBi gain 3 Rx or Tx chains = 6 dBi gain 4 Rx or Tx chains = 9 dBi gain
- D. 2 Rx or Tx chains = approx 4-6.5 dBi gain 3 Rx or Tx chains = approx 7-10 dBi gain 4 Rx or Tx chains = approx 10-12 dBi gain
- E. The theoretical gains offered by each additional radio are different for TxBF and MRC.

Correct Answer: A

QUESTION 5

Use the exhibit as a reference.

Tx Power Level Assignment

Current Tx Power Level	4
Assignment Method	<input type="radio"/> Global
	<input checked="" type="radio"/> Custom
	<div style="border: 1px solid black; padding: 2px;"><div style="border-bottom: 1px solid black; padding: 2px;">4 ▼</div><div style="padding: 2px;">1</div><div style="padding: 2px;">2</div><div style="padding: 2px;">3</div><div style="padding: 2px;">4</div><div style="padding: 2px;">5</div><div style="padding: 2px;">6</div><div style="padding: 2px;">7</div><div style="padding: 2px;">8</div></div>

Given:



-In your regulatory domain, a Tx Power Level of "1" is equivalent to 17 dBm.

-For every integer increment (e.g. from 1 to 2) to the Tx Power Level, the AP's transmit power is halved.

In units of mW, what is the actual transmit power for an AP configured at a Tx Power Level of "4"?

A. 200 mW

B. 50 mW

C. 12.5 mW

D. 8 mW

E. 6.25 mW

F. 2.5 mW

Correct Answer: E

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