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**QUESTION 1**

Assume that your network operates in a regulatory domain that allows use of UNII-1, UNII-2, UNII- 2e, UNII-3, and the 5.8 GHz ISM band for indoor Wi-Fi. In your upcoming 802.11n deployment, you would like to take advantage of the performance improvements that result from channel bonding. However, after extensive testing, you have determined that your mission-critical WLAN should not use channels requiring DFS support.

Given those two criteria (enable channel bonding and disable DFS channels), in the 5 GHz spectrum, how many non-overlapping channels will your system be able to use?

- A. 2
- B. 3
- C. 4
- D. 6
- E. 11

Correct Answer: C

QUESTION 2

What antenna connector type is displayed in the exhibit?



A. RP-TNC

B. RP-SMA

C. N Connector

D. MC Connector

E. MMCX

Correct Answer: B

QUESTION 3

During a post-deployment verification, you are requested to troubleshoot an area where users are experiencing poor throughput. They are using data communication only, mainly from laptops. You captured the frame displayed in the exhibit from the location where problems are reported. This frame is typical of those that were captured by the analyzer.



```
Frame 14887 (59 bytes on wire, 59 bytes captured)
  Radiotap Header v0, Length 20
    Header revision: 0
    Header pad: 0
    Header length: 20
    Present flags: 0x000018ee
    Flags: 0x10
    Data Rate: 6.0 Mb/s
    Channel frequency: 2412 [BG 1]
    Channel type: 802.11g (pure-g) (0x00c0)
    SSI Signal: -80 dBm
    SSI Noise: -100 dBm
    Signal quality: 10
    Antenna: 0
    SSI Signal: 20 dB
  IEEE 802.11 QoS CF-Ack + CF-Poll (No data), Flags: .pmP.MFT.
    Type/Subtype: QoS CF-Ack + CF-Poll (No data) (0x2f)
  Frame Control: 0x77F9 (Normal)
    Version: 1
    Type: Data frame (2)
    Subtype: 15
    Flags: 0x77
    Duration: 39687
    Receiver address: 7a:a2:40:d5:49:be (7a:a2:40:d5:49:be)
    Transmitter address: ef:20:6f:0d:da:a7 (ef:20:6f:0d:da:a7)
    Destination address: 7c:b9:f8:1a:39:dd (7c:b9:f8:1a:39:dd)
    Fragment number: 15
    Sequence number: 890
    Source address: b7:97:16:50:00:7b (b7:97:16:50:00:7b)
    Frame check sequence: 0x0a348121 [incorrect, should be 0x09615e51]
  QoS Control
    Priority: 5 (video) (video)
    ...1 .... = EOSP: End of service period
    Ack Policy: Block Ack (0x03)
    TXOP Limit: 2
```

What does this frame reveal about the RF network in this area?

- A. One station seems to be streaming video, thus may have reserved significant bandwidth via admission control
- B. Contention Free is in place in this network, which may starve some non-QoS stations from access
- C. Multipath or excessive collisions seem to be an issue in this area
- D. The AP seems to be too far to provide enough coverage to this area
- E. Stations are using null data frames as protection mechanisms to reserve the medium
- F. The station that sent this frame is causing a DoS attack by using extended Duration values

Correct Answer: C

QUESTION 4



In a multiple channel architecture (MCA) network supporting 802.1X authentication, what aspects of WLAN design affect client roaming efficiency and effectiveness? (Choose 3)

- A. Channels supported by infrastructure
- B. Key caching protocols
- C. Cipher suite
- D. PHY standard used by client
- E. Supported uplink and downlink MCS rates
- F. The infrastructure's roaming algorithm
- G. Channels supported and scanned by client

Correct Answer: ABG

QUESTION 5

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

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