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**QUESTION 1**

What problems may occur when there are hidden nodes in the BSS?

- A. Increase in downlink (transmitted by AP) frame retries.
- B. High retransmission count for a subset of client stations.
- C. Use of frame fragmentation with fragment bursts.
- D. Excessive use of null data frames.
- E. Duration values vary widely in each data frame.

Correct Answer: B

QUESTION 2

What cause of hidden nodes within a BSS would be more likely lead to an increase in collisions and retries?

- A. Data frames too large for the physical environment
- B. Client stations broadcasting with too much power
- C. Access points broadcasting with too little power
- D. Large 802.11 cells with physically distributed stations

Correct Answer: D

QUESTION 3

An 802.11 WLAN transmitter that emits a 50 mW signal is connected to a cable with 3 dB of loss. The cable is connected to an antenna with 16 dBi of gain.

What is the EIRP power output?

- A. 2 mW
- B. 500 mW
- C. 250 mW
- D. 1000 mW

Correct Answer: D

QUESTION 4



Your consulting firm has recently been hired to complete a site survey for a company. Your engineers use predictive modeling software for surveying, but the company insists on a pre-deployment site visit.

What task should be performed as part of the pre-deployment visit to prepare for a predictive survey?

- A. Evaluate the building materials at ABC's facility and confirm that the floor plan documents are consistent with the actual building.
- B. Test several antenna types connected to the intended APs for use in the eventual deployment.
- C. Collect information about the company's security requirements and the current configuration of their RADIUS and user database servers.
- D. Install at least one AP on each side of the exterior walls to test for co-channel interference through these walls.

Correct Answer: A

QUESTION 5

As you prepare for a site survey in a multi-floor corporate office, you have learned about several wireless devices that support connection-oriented, real-time applications. These applications are sensitive to service interruptions and require excellent signal quality, low latency, and low loss. For that reason, it is important to identify sources of RF interference as well as building characteristics that would cause RF blockage or dead spots.

What systems or environmental characteristics are most likely to cause interference or RF blockage and disrupt service for these applications? (Choose 2)

- A. Microwave ovens
- B. Narrow hallways
- C. Elevator shafts
- D. RFID chokepoints
- E. Workspace dividers

Correct Answer: AC

QUESTION 6

What statement is true concerning the use of Orthogonal Frequency Division Multiplexing (OFDM) in IEEE

802.11 WLANs?

- A. 802.11a and 11n use six (6) "pilot" subcarriers as a reference for the receiver to detect frequency and phase shifts of the signal.
- B. 802.11a/g/n OFDM includes several combinations of modulation and coding to achieve data rates from 1-600 Mbps.
- C. With 802.11a OFDM, 16-QAM provides either 48 or 54 Mbps data rates, depending upon coding rates.
- D. 802.11ac VHT-OFDM utilizes 256-QAM, which increases the data rate significantly over 64-QAM available in HT-



OFDM.

E. In 802.11a OFDM, fifty-six (56) subcarriers are used as parallel symbol transmission paths to carry data.

Correct Answer: D

QUESTION 7

Which features are incorporated in the 802.11-2012 specification and are recommended for robust WLAN client security? (Choose 2)

- A. SSID hiding
- B. CAPWAP with DTLS
- C. 802.1X/EAP
- D. CCMP cipher suite
- E. IPsec VPN
- F. MAC address white lists

Correct Answer: CD

QUESTION 8

What features were introduced in the IEEE 802.11h amendment in order to uphold regulatory requirements for 5 GHz operation? (Choose 2)

- A. 256-QAM
- B. Distributed Coordination Function (DCF)
- C. Phase Shift Keying (PSK)
- D. Transmit Power Control (TPC)
- E. Radio Resource Management (RRM)
- F. Dynamic Frequency Selection (DFS)

Correct Answer: DF

QUESTION 9

What can cause an excessively high VSWR (Voltage Standing Wave Ratio) in a WLAN RF transmission line?

- A. An impedance mismatch in the RF cables and connectors
- B. Reflected direct current (DC) voltage on the main RF signal line



- C. Attenuation of the RF signal as it travels along the main signal path
- D. Crosstalk (inductance) between adjacent RF conductors

Correct Answer: A

QUESTION 10

As XYZ Company's wireless specialist, you have been asked to troubleshoot some unexpected frame patterns in a wireless protocol capture. Your peers explain that the network's beacon frames are inconsistent. That is, the BSSID is the same for all beacons, but the source address varies between three different addresses.

What network configuration would cause this beacon frame behavior?

- A. A single AP supports multiple BSSs with different SSIDs
- B. A virtual cell single channel network has been implemented
- C. The beacons are from an IBSS instead of a BSS
- D. Three APs still share the same default configuration.

Correct Answer: C

QUESTION 11

Which data rate is supported by 802.11g radios that is not supported by 802.11a radios?

- A. 9 Mbps
- B. 11 Mbps
- C. 12 Mbps
- D. 54 Mbps
- E. 65 Mbps
- F. 130 Mbps

Correct Answer: B

QUESTION 12

ABC Company is planning a point-to-multipoint outdoor bridge deployment with standalone (autonomous)

802.11 bridge units. 802.1X/EAP will be used for bridge authentication. A Linux-based RADIUS server will be used for authentication. What device in the bridge implementation acts as the 802.1X Authenticator?

- A. The RADIUS server



- B. All non-root bridges
- C. A designated non-root bridge
- D. The root bridge
- E. The Ethernet switch

Correct Answer: D

QUESTION 13

What threecipher suites are specified by the IEEE 802.11-2012 standard? (Choose 3)

- A. Counter Modewith CBC-MAC Protocol
- B. Wi-Fi Protected Access v1 and v2
- C. Internet Protocol Security
- D. Extensible Authentication Protocol
- E. GCM with Galois Message AuthenticationCode (GMAC) Protocol
- F. Wired Equivalent Privacy
- G. Temporal Key Integrity Protocol

Correct Answer: AFG

QUESTION 14

The IEEE 802.11a/n/ac physical layer technologies utilize the 5 GHz frequency band. What is true ofthe channels in this frequency spectrum?

- A. 14 channels are available worldwide.
- B. 11 channels are available worldwide.
- C. Regulatory domains worldwide require DFS and TPC in all these channels.
- D. DFS may be required in some regulatory domains on somechannels.
- E. 802.11 channels areseparated by 5 Mhz

Correct Answer: D

QUESTION 15

What feature was introduced in the 802.11h amendment in order to uphold regulatory requirements for 5 GHz operations.



- A. 256-QAM
- B. Distributed Coordination Function (DCF)
- C. Transmit Power Control(TPC)
- D. Radio Resource Management (RRM)

Correct Answer: C

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