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QUESTION 1

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 2

In a Wi-Fi client configuration utility, what feature is most likely to be user configurable?

- A. 802.1p to WMM mappings
- B. SNMPv3 Users
- C. WMM-PS Dozing Interval
- D. RADIUS Server IP Address
- E. EAP Authentication Type

Correct Answer: E

QUESTION 3

Which of the following frequency ranges are specified for use by IEEE 802.11 radios? (Choose all that apply.)

- A. 902 - 928 MHz
- B. 2.4000 ? 2.4835 GHz
- C. 5.15 ? 5.25 GHz
- D. 5.470 ? 5.725 GHz
- E. 5.725 ? 5.875 GHz

Correct Answer: BCDE

QUESTION 4

Which IEEE 802.11 physical layer (PHY) specifications include support for and compatibility of both OFDM and HR/DSSS? (Choose 2)

- A. HR/DSSS (802.11b)
- B. OFDM (802.11a)
- C. ERP (802.11g)
- D. HT (802.11n)
- E. CCK (802.11b)
- F. VHT (802.11ac)

Correct Answer: CD

QUESTION 5

What is always required to establish a high quality 2.4 GHz RF link at a distance of 3 miles (5 kilometers)?

- A. Minimum output power level of 2 W
- B. Grid antennas at each endpoint
- C. A minimum antenna gain of 11 dBi at both endpoints
- D. A Fresnel Zone that is at least 60% clear of obstructions

Correct Answer: D

QUESTION 6

What statement accurately describes the RF cables and connectors that are used in an 802.11 WLAN system?

- A. 75 and 125 ohms are the typical impedances of 802.11 WLAN connectors.
- B. Two RF connectors of the same type (e.g. SMA), manufactured by different companies, may vary in specifications.
- C. Some RF connectors do not cause insertion loss.
- D. Large diameter RF cables cause greater loss than small diameter cables.

Correct Answer: B

QUESTION 7

What problem may exist for a multiple channel architecture (MCA) WLAN when its APs are all operating at full power (typically 100mW)?

- A. WLAN client stations can experience the hidden node problem when located near each other within the same cell.
- B. The mismatched power between WLAN client stations and APs violates regulatory and IEEE signal quality requirements.
- C. Cell size may be too large, causing co-channel interference to adjacent cells and reducing system capacity.
- D. APs operating in the 2.4 GHz band would prevent microwave ovens and analog video cameras from functioning.

Correct Answer: A

QUESTION 8

When a client station sends a broadcast probe request frame with a wildcard SSID, how do APs respond?

- A. After waiting a SIFS, all APs reply at the same time with a probe response.
- B. After waiting a SIFS, a designated AP sends an ACK, and then replies with a probe response.
- C. Each AP checks with the DHCP server to see if it can respond and then acts accordingly.
- D. For each probe request frame, only one AP may reply with a probe response.
- E. Each AP responds in turn after preparing a probe response and winning contention.

Correct Answer: E

QUESTION 9

How is throughput capacity scaled in a single channel architecture (SCA) WLAN system?

- A. By increasing transmit power and placing APs that are on a single channel farther from one another.
- B. By adding more SSIDs to existing APs to spread users across different contention domains.
- C. By adding non-overlapping channel layers through the addition of more APs.
- D. By using downlink data compression and uplink flow control at the AP.

Correct Answer: C

QUESTION 10

You are an independent contractor, hired to perform an indoor site survey and network design for Luxury Full Service Hotels International. The network will support hotel staff and guest users. You are interviewing the network manager to determine business, performance, and security requirements for the future 802.11 WLAN.

What questions should you ask the IT manager? (Choose 2)

- A. What data cabling is currently installed in the rooms and throughout the hotel?

- B. How much RF loss do you expect between hotel rooms?
- C. Who installed your existing wired network?
- D. What types of applications will be used by the hotel staff?
- E. On what frequency do the microwave ovens operate in the hotel suites?

Correct Answer: AD

QUESTION 11

As a consultant, you've been hired by XYZ Company to provide recommendations about client device selection, operation, and interoperability. What information should be considered to help them choose the right WLAN client devices?

- A. 802.11n OFDM is more susceptible to high-power, narrowband interference than 802.11a OFDM
- B. In order to earn Wi-Fi Alliance certification, 802.11n clients stations are required to support both 2.4 and 5 GHz frequencies
- C. 802.11ac devices support the features of the VHT PHY only in the 5 GHz frequency band.
- D. 802.11ac is not backwardly compatible with 802.11n or 802.11a.

Correct Answer: C

QUESTION 12

When compared with legacy Power Save mode, how does VHT TXOP power save improve battery life for devices on a WLAN?

- A. VHT TXOP power save allows stations to enter sleep mode and legacy Power Save does not.
- B. VHT TXOP power save uses the partial AID in the preamble to allow clients to identify frames targeted for them.
- C. Legacy Power Save mode was removed in the 802.11ac amendment.
- D. VHT TXOP power save allows the WLAN transceiver to disable more components when in a low power state.

Correct Answer: B

QUESTION 13

When a client moves to a new BSS within an ESS, what step is a part of the 802.11 reassociation process?

- A. The client station transmits a Reassociation Request frame to its current access point.
- B. The current access point informs the IP gateway of the reassociation.
- C. The current access point triggers the client's reassociation service.

D. The new access point transmits a Reassociation Response to the client station with a status value.

Correct Answer: D

QUESTION 14

What factors are taken into account when calculating the Link Budget of a point-to-point outdoor WLAN bridge link?

- A. Operating frequency
- B. Transmit antenna gain
- C. Transmit power
- D. Antenna height

Correct Answer: ABC

QUESTION 15

You are onsite with a client to perform a post-deployment site survey. When verifying a multiple channel VoWiFi deployment using a VoWiFi handset, which aspect is most important?

- A. Performing protocol analysis with a single wireless adapter that is scanning all channels in use
- B. Testing a constant conversation or handset tone while roaming from area to area, or performing an active survey
- C. Configuring DSCP-to-802.11e QoS maps on the handset for each access category.
- D. Verifying the VHT functionality to handle the call volume incurred by a single VoIP phone call.

Correct Answer: B

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