



Cisco 300-425 Mock Exam

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Question 1

Question Type: MultipleChoice

A hospital wireless environment was designed with these characteristics:

- * RF coverage
- * better than -67 dBm in the 5 GHz spectrum
- * RRM be used for DCA and TPC in the 2.4 GHz band
- * RRM be used for DCA and TPC in the 5 GHz band

After deployment, why do many of the legacy 802.11b/g devices have difficulty maintaining connectivity?

Options:

- A- Excessive co-channel interference in the 2.4 GHz band exists.
- B- Excessive overlapping channels in the 2.4 GHz band exists.
- C- TPC drastically increases Tx power in the 2.4 GHz band.
- D- TPC drastically reduces Tx power in the 2.4 GHz band.

Answer:

D

Explanation:

The Cisco Aironet 3800 Series APs support mGig, which allows for higher throughput over existing cabling. However, the maximum cable length that supports 5G operation is limited by the quality of the cable and signal attenuation. Category 5e cabling can support 5G operation up to a length of 130 meters, which is within the acceptable range for maintaining the required signal integrity for 5G speeds.

Question 2

Question Type: MultipleChoice

Campus users report a poor wireless experience. An engineer investigating the issue notices that in high-density areas, the wireless clients fail to switch the AP to which are automatically

connected. This sticky client behavior is causing roaming issues. Which feature must the engineer configure?

Options:

- A- Load balancing and band select
- B- optimized roaming
- C- Layer 3 roaming
- D- Layer 2 roaming

Answer:

B

Explanation:

Optimized roaming is a feature that helps mitigate sticky client behavior by assessing the client's signal strength and proactively disconnecting clients with a signal below a predefined threshold. This encourages clients to connect to a closer AP with a stronger signal, improving the overall wireless experience in high-density areas.

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/80/hdx_final/b_hdx_dg_final/high_density_experience_features_added_in_release_8_0.html

Question 3

Question Type: MultipleChoice

A wireless engineer must design a backhaul link. The engineer has a mesh access point that has a wired connection back to the infrastructure. What must be changed in the AP role before a change is made in the AP mode?

Options:

- A- monitor
- B- RAP
- C- bridge
- D- local

Answer:

C

Explanation:

When designing a backhaul link, the mesh AP role should be set to 'bridge' to enable it to connect separate network segments or extend coverage to remote areas.

Question 4

Question Type: MultipleChoice

Which statement about the 9800 Series Wireless Controller mobility tunnel on a Cisco Catalyst 9800 controller is true?

Options:

- A- It is an IPsec tunnel with control path only.
- B- It is a CAPWAP tunnel with data path only.
- C- It is a CAPWAP tunnel with control path and data path.
- D- It is an IPsec tunnel with control path and data path.

Answer:

C

Explanation:

The 9800 Series Wireless Controller uses CAPWAP tunnels to encapsulate and transport both control and data traffic between access points and the controller. This allows for centralized management and control while also enabling efficient data forwarding.

https://www.cisco.com/c/en/us/td/docs/wireless/controller/9800/config-guide/b_wl_16_10_cg/mobility.html

Question 5

Question Type: MultipleChoice

Which three pieces of equipment are needed to conduct a fully measured wireless survey?
(Select three.)

Options:

- A- PoE battery
- B- spirit level
- C- access point
- D- tall tripod
- E- goggles
- F- ladder



Answer:

A, C, F

Explanation:

A fully measured wireless survey requires tools that support the active functioning of the network and allow for physical access to install and measure equipment. A PoE (Power over Ethernet) battery is necessary to power the access point during the survey. The access point itself is essential for broadcasting the signal. A ladder is needed to reach high places for proper access point placement and to measure coverage areas effectively.

https://www.cisco.com/c/en/us/td/docs/wireless/technology/mesh/81/design/guide/b_mesh_81/Site_Preparation_and_Planning.html

Question 6

Question Type: MultipleChoice

Which Cisco WLC feature allows grouping of APs into a logical set for RF management?

Options:

- A- RF Profiles
- B- FlexConnect Groups
- C- Mobility Groups
- D- AP Groups

Answer:

D

Question 7

Question Type: MultipleChoice

A wireless engineer is utilizing the voice readiness tool in Cisco Prime for a customer that wants to deploy Cisco IP phones. Which dBm range is the network inspected against?

Options:

- A- -78 to -65 dBm
- B- -72 to -67 dBm
- C- -85 to -65 dBm
- D- -85 to -67 dBm

Answer:

B

Explanation:

The voice readiness tool in Cisco Prime inspects the network against a dBm range that is suitable for voice over Wi-Fi. The range of -72 to -67 dBm is considered optimal for voice applications, ensuring clear audio quality and minimal packet loss.

https://www.cisco.com/c/en/us/td/docs/net_mgmt/prime/infrastructure/34/user/guide/bk_CiscoPrimeInfrastructure_3_4_0_UserGuide/bk_CiscoPrimeInfrastructure_3_4_0_UserGuide_chapter_01010.html

Question 8

Question Type: MultipleChoice

Which design document contains detailed RF coverage maps, AP placement, and antenna orientation?

Options:

- A- Low-Level Design (LLD)
- B- High-Level Design (HLD)
- C- BOM
- D- Network topology diagram

Answer:

A



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