Vendor: Cisco

Exam Code: 300-425

Exam Name: Designing Cisco Enterprise Wireless Networks (ENWLSD)

Version: DEMO

QUESTION 1
A wireless engineer is designing a wireless network for a warehouse using access points with internal antennas.
Which two elements have a negative effect on the wireless users? (Choose two.)

A. wireless channels
B. access point height
C. client authentication
D. client authorization
E. absorption

Answer: BE
Explanation:
https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-1250series/design_guide_c07-693245.html#_Toc309331086

QUESTION 2
Which statement about AP failover priority for access points when configured with priority 1 or 4 is true?

A. When configured with priority 1, the access point is assigned with the highest priority level and it is marked as critical. This access point fails over before other access points with the lower priority when there is primary controller failure.
B. When configured with priority 4, the access point is assigned with the highest priority level and it is marked as critical. This access point fails over before other access points with the lower priority when there is primary controller failure.
C. When configured with priority 4, the access point is assigned with the lowest priority level and it is marked as low. This access point fails over after other access points with the higher priority when there is primary controller failure.
D. When configured with priority 1, the access point is assigned with the medium priority level and it is marked as medium. This access point fails over after other access points with the higher priority when there is primary controller failure.

Answer: B
Explanation:

N+1 Redundancy
AP Failover Priority

- Assign priorities to APs: Critical, High, Medium, Low

- Critical priority APs get precedence over all other APs when joining a controller

- In a failover situation, a higher priority AP will be allowed to join ahead of all other APs

QUESTION 3
A customer has noticed that Client Band Select is enabled and no clients are utilizing the 5 GHz band.
Which three parameters must be met to ensure that wireless clients use the 5 GHz band? (Choose three.)

A. Ensure that channel bonding is enabled on the WLAN.
B. Ensure that the co-channel interference has not exceeded -85 dBm.
C. Ensure tha the UNII-2 extended channels are enabled on the 802.11a radios.
D. Ensure that the client is receiving RSSI above the minimum band select RSSI threshold.
E. Ensure that the client is dual-band capable.
F. Ensure that the WLAN has 802.11a enabled.

Answer: CEF
Explanation:

For 802.11a, countries are moving to open the frequency range 5.250–5.350 GHz (UNII-2)

The 5 GHz band in which 802.11a operates is divided into several different sections.

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dgwrapper/ch3_WLAN.pdf

QUESTION 4
A wireless engineer is performing a post verification of a wireless network.
Which two metrics does the engineer verify to ensure that the wireless network can support voice services? (Choose two.)

A. The coverage area must have a noise floor that does not exceed -87 dBm.
B. The client device must have at least an -67 dBm RSSI.
C. The rate of retransmitted packets must be 15 percent or below.
D. The rate of retransmitted packets must be 20 percent or below.
E. The client device must have at least an -65 dBm RSSI.

Answer: BD
Explanation:

1. The optimal VoWLAN Cell Edge recommendation is -67 dBm.

5. Retransmissions should be kept under 20 percent.

QUESTION 5
Which three pieces of equipment are needed to conduct a fully measured wireless survey?
(Choose three.)

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

Answer: ACD
Explanation:
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
A company has 10 access point licenses available on their backup Cisco WLC and their primary
Cisco WLC is at full capacity, 5 access points are set to high failover priority and 7 access points
are set to critical failover priority.
During a failure, not all critical access points failed over to the backup Cisco WLC.
Which configuration is the cause of this issue?

A. The high priority access point is oversubscribed.
B. network ap-priority is set to enable.
C. The critical priority access point count is oversubscribed.
D. network ap-priority is set to disable.

Answer: A
Explanation:
https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2016/pdf/BRKCOL-2275.pdf

QUESTION 7
Which CLI command does an engineer use to validate that the redundancy peer of a Stateful
Switchover pair of controllers is up and connected?

A. rping
B. ping

C. eping
D. mping

Answer: B
Explanation:
Both the WLCs in HA setup keep track of gateway reachability. The Active WLC sends an Internet Control Message Protocol (ICMP) ping to the gateway using the Management IP address as the source,

QUESTION 8
An engineer must decide the cell overlap for a wireless voice deployment.
Which Cisco measurement recommendation should be considered?

A. The edge of the cell should be -67 dBm.
B. The edge of the cell should be below 35 RSSI.
C. The measurement should be done on the 2.4-GHz band.
D. One AP should be deployed per 3000 square feet.

Answer: A
Explanation:

· The optimal VoWLAN cell boundary recommendation is −67 dBm

QUESTION 9
A network engineer is configuring high availability on an access point.
What is the maximum number of controllers that can be configured?

A. 1
B. 2
C. 3
D. 4

Answer: B
Explanation:

The N+1 HA architecture provides redundancy for controllers across geographically separate data centers with low cost of deployment.

So max 2 will be supported on an AP.

QUESTION 10
An engineer must configure the virtual IP address on multiple controllers in a mobility group.
Which rule must the engineer follow to ensure proper roaming?

A. Ensure that the DNS entry is tied to the virtual IP address of the WLC.
B. Use a unique IP address for each WLC.
C. Ensure that the DNS Host Name field is defined.
D. Use the same IP address for each WLC.

Answer: D
Explanation:

All controllers within a mobility group must be configured with the same virtual interface IP address.

QUESTION 11
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?

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

Answer: D
Explanation:

Default voice minimum RSSI is -75 dBm. but cisco reccomend to get RSSI better than -67 dBm.

https://www.cisco.com/c/en/us/td/docs/net_mgmt/prime/infrastructure/34/user/guide/bk_CiscoPr
imeInfrastructure_3_4_0_UserGuide/bk_CiscoPrimeInfrastructure_3_4_0_UserGuide_chapter_0
101 0.html
minimum is -90 and maximum is -67 for IP phone

QUESTION 12
When conducting a site survey for real-time traffic over wireless, which two design capabilities of smartphones and tablets must be considered? (Choose two.)

A. no support for 802.11ac
B. higher data rates than laptops
C. fewer antennas than laptops
D. no support for 802.11r
E. lower data rates than laptops

Answer: CE
Explanation:
Site surveys are one of the basic requirements when you deploy a WLAN, and you must always consider the Wi-Fi capabilities of the client devices or endpoints. Most smartphones and tablets support 802.11. However, generally, the smartphones and tablets have fewer antennas and lower data rates than laptops. In addition, most are not purpose-built for the enterprise WLAN market. Almost all smartphones and tablets support enterprise security policies. However, many of them do not support

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