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300-425

**Designing Cisco
Enterprise
Wireless Networks**



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Cisco 300-425 Exam Syllabus Topics:

Section	Weight	Objectives
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		- Describe material attenuation and wireless impact - Utilize planning and analysis tools • 1. Ekahau • 2. Spectrum Analyzer • 3. Prime Infrastructure • 4. Chanalyzer • 5. AirMagnet
Wireless Site Survey	25%	- Perform predictive site survey - Perform and analyze Layer 1 site survey - Perform post-deployment site survey - Collect design requirements and evaluate constraints • 1. Real-time applications • 2. Client density • 3. Security • 4. Access point type • 5. Deployment type - Perform pre-deployment site survey - Validate mobility tunneling
Mobility	25%	• 1. Control path • 2. Data path - Design mobility groups based on roles - Optimize client roaming - Design high availability for controllers • 1. Anchor controller redundancy • 2. Link Aggregation Group • 3. Stateful Switchover
WLAN High Availability	20%	- Design high availability for access points • 1. Access point prioritization • 2. Fallback configuration

- Determine logical infrastructure requirements
 - 1. WLC licensing
 - 2. Wireless architecture selection
- Determine physical infrastructure requirements
 - 1. Grounding
 - 2. Access point power
 - 3. Cabling
 - 4. Switch port capacity
 - 5. Mounting
- Design high-density wireless networks
 - 1. Lecture halls
 - 2. Campus
 - 3. Conference rooms

Wired and Wireless Infrastructure 30%

- Design wireless bridging
 - 1. Modes of operation
 - 2. Workgroup bridge and roaming
 - 3. Ethernet bridging
- Apply wireless network design requirements
 - 1. Hyperlocation
 - 2. Data
 - 3. Voice and video
 - 4. Location services
- Design radio management
 - 1. RRM
 - 2. RF profiles
 - 3. RxSOP

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Cisco Designing Cisco Enterprise Wireless Networks Sample Questions (Q102-Q107):

NEW QUESTION # 102

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 rate of retransmitted packets must be 15 percent or below.
- C. The client device must have at least an -67 dBm RSSI.
- D. The client device must have at least an -65 dBm RSSI.
- E. The rate of retransmitted packets must be 20 percent or below.

Answer: C,E

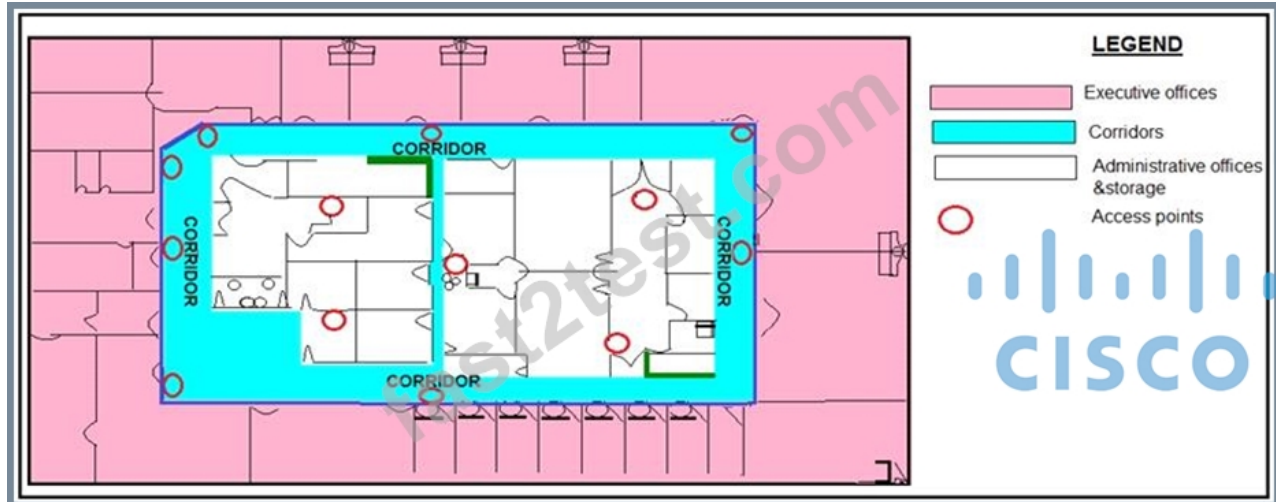
Explanation:

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

5. Retransmissions should be kept under 20 percent.

NEW QUESTION # 103

Refer to the exhibit.



What is the main reason why the Wi-Fi design engineer took a different approach than installing the APs in the offices, even though that installation provides better coverage?

- A. power supply considerations
- B. transmit power considerations
- C. aesthetics
- D. antenna gain

Answer: B

NEW QUESTION # 104

A network engineer is designing a new wireless network for a campus. The network must include these requirements:

- * optimized performance
- * avoid interference
- * availability in high-density areas
- * roaming

Which two approaches must be taken? (Choose two.)

- A. 5 GHz frequency band with 80 MHz channels
- B. 2.4 GHz frequency band with 20 MHz channels
- C. 2.4 GHz frequency band with 40 MHz channels
- D. 5 GHz frequency band with 20 MHz channels
- E. 5 GHz frequency band with 40 MHz channels

Answer: C,E

NEW QUESTION # 105

A network engineer is retrofitting an existing building wired with Category 5e with Cisco Aironet 3800 Series APs and mGig switches. Which cable length allows for 5G operation?

- A. 120 m
- B. 70 m

- C. 150 m
- **D. 130 m**

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.

NEW QUESTION # 106

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

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

Answer: C

Explanation:



NEW QUESTION # 107

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