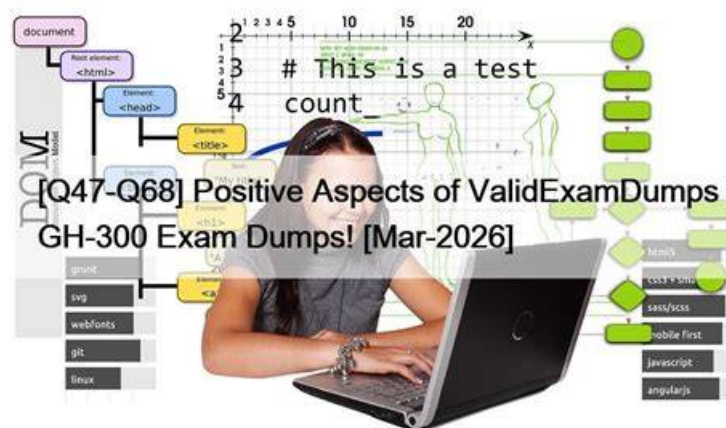


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Cisco 300-110 Exam Syllabus Topics:

Section	Objectives
Topic 1: Troubleshooting and Validation	- Wireless performance troubleshooting methodologies - Validation tools and post-deployment testing
Topic 2: High Availability and Performance Optimization	- Load balancing and RF optimization - Redundancy design for controllers and APs
Topic 3: Wireless Security Design	- 802.1X authentication and RADIUS integration - WPA2/WPA3 enterprise security design - Guest access and segmentation strategies
Topic 4: Cisco Wireless Architecture	- Lightweight Access Point (LAP) deployment models - Controller-based architecture (WLC) - Mobility groups and roaming design
Topic 5: RF Fundamentals and Design Principles	- Channel planning and interference mitigation - Antenna types and placement strategies - RF behavior and propagation
Topic 6: Wireless Site Survey and Requirements Analysis	- Coverage and capacity planning - Business and technical requirements gathering - Physical environment assessment and constraints

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Cisco Designing Cisco Wireless Networks Sample Questions (Q115-Q120):

NEW QUESTION # 115

A wireless engineer is preparing for a meeting with a customer to discuss a new wireless network design. The customer is a

company that develops code and occupies a three-story building.

Which two information points does a pre-site survey questionnaire contain? (Choose two.)

- A. model of the wireless controller
- **B. applications that will run over the wireless network**
- C. client devices that will connect to the wireless network
- D. total number of access points in use
- **E. access point density required**

Answer: B,E

Explanation:

A pre-site survey questionnaire is used to gather information before the physical survey begins, helping to define design requirements. The two most important information points it should contain are the access point density required and the applications that will run over the wireless network. Access point density (Option C) must be understood early because it depends on the number and types of users in each area, directly influencing the survey approach and AP placement strategy. Applications (Option E) are critical because they define the QoS requirements -- a company developing code may run video conferencing, large file transfers, and real-time collaboration tools, each with distinct bandwidth and latency requirements that shape the RF design criteria.

NEW QUESTION # 116

An educational organization recently deployed an anchored WLAN and has a high number of client connections at any given time that stream video. The wireless infrastructure includes two Cisco 9800 WLCs.

To prevent web traffic being slow, an engineer must configure the deployment to prevent excessive fragmentation of the client data. Which configuration must the engineer apply?

- A. Set the MTU on both controllers to match.
- B. Increase the MTU on both controllers.
- C. Set the do not fragment bit on the mobility tunnel.
- **D. Adjust the TCP MSS value below the fragmentation point.**

Answer: D

Explanation:

In an anchored WLAN deployment, client traffic is encapsulated within CAPWAP mobility tunnels between the foreign WLC (where the AP joins) and the anchor WLC (in the DMZ or designated network segment).

This tunneling adds encapsulation overhead - CAPWAP/mobility tunnel headers consume a portion of the available MTU on the transport path. When video streaming clients generate large TCP segments, these segments may exceed the effective MTU of the mobility tunnel path, causing IP fragmentation at the WLC or along the path to the anchor. Fragmentation significantly degrades throughput and increases CPU overhead for high-volume video traffic. The correct solution is TCP MSS Clamping - reducing the Maximum Segment Size value advertised in TCP SYN packets so that TCP endpoints negotiate a segment size remaining below the fragmentation threshold. The Cisco 9800 WLC supports TCP MSS adjustment, which intercepts TCP handshake packets and rewrites the MSS option to a value accounting for CAPWAP tunnel overhead. Setting matching MTUs (Option A) does not prevent fragmentation if the effective tunnel MTU is lower than the client segment size. Increasing the MTU (Option B) is often constrained by physical infrastructure. Setting the DF bit (Option D) would cause packets to be dropped rather than fragmented.

Reference: WLSG Study Guide - Anchored WLAN Design, CAPWAP Mobility Tunnel MTU, TCP MSS Clamping.

NEW QUESTION # 117

A university wants to deploy a high density of APs in an area where a high number of users congregate.

Which functionality allows the university to optimize the RF settings for APs that operate in different environments or coverage zones?

- **A. RF profiles**
- B. AP profiles
- C. RF groups
- D. AP groups

Answer: A

Explanation:

RF Profiles are a Cisco WLC configuration construct that allows administrators to define a customized set of Radio Resource Management (RRM) parameters and apply them to a subset of APs operating in a specific environment or coverage zone. Within a university high-density deployment - where a lecture hall, outdoor quad, cafeteria, and library may each require fundamentally different RF settings - RF Profiles enable differentiation without globally modifying all RRM parameters. An RF Profile can define custom values for:

minimum mandatory data rates, maximum transmit power, minimum transmit power, channel width (20/40/80 MHz), RxSOP thresholds, client load balancing parameters, and coverage hole detection sensitivity. This allows the engineer to apply aggressive interference mitigation settings to high-density assembly areas while maintaining full-coverage settings for perimeter zones. AP Groups (Option A) assign WLANs and interface mappings to subsets of APs but do not directly control RF parameters. RF Groups (Option B) are automatically formed by RRM and represent a cluster of APs coordinating channel and power assignment. AP Profiles (Option C) define AP behavior parameters such as NTP and SSH settings, not RF optimization parameters. Reference: WLSG Study Guide - RF Profile Configuration, High-Density WLAN Design, RRM Parameter Customization.

NEW QUESTION # 118

A network engineer must design a new wireless solution for a company, but the budget can only stretch to include a single Cisco 9800-40 WLC. The company requires high availability between the WLC and the core switch in the event of a cable failure. The WLC must dynamically manage port redundancy and perform load balancing between APs transparently. Which design approach must the engineer take to meet the requirements?

- A. Multi-LAG
- B. PAgP
- C. LAG
- D. LACP

Answer: C

Explanation:

Link Aggregation Group (LAG) is the correct design approach for a single Cisco 9800-40 WLC that requires high availability between the WLC and the core switch in the event of a cable failure. LAG combines multiple physical ports on the WLC into a single logical channel, providing both redundancy (traffic automatically redistributes across remaining links when one fails) and load balancing (traffic is distributed across all active links). Importantly, LAG operates transparently to AP management - APs see a single logical uplink regardless of which physical port their traffic traverses. With a single WLC, Multi-LAG (Option B) is not applicable - Multi-LAG is a feature of the Catalyst 9800 that allows multiple separate LAG bundles for different network connections, typically used with SSO pairs. LACP (Option C) is the protocol used to negotiate LAG member links - it is the mechanism within LAG, not an independent design approach. PAgP (Option D) is a Cisco proprietary alternative to LACP for port aggregation but the question asks for the design approach, which is LAG. Reference: WLSG Study Guide - Catalyst 9800 LAG Design, Port Redundancy and Load Balancing, Single-Controller High Availability.

NEW QUESTION # 119

During a post-deployment site survey, issues are found with non-Wi-Fi interference. What should the engineer use to identify the source of the interference?

- A. Wireshark
- B. Cisco spectrum expert
- C. Wireless intrusion prevention
- D. Network analysis module

Answer: B

Explanation:

Cisco Spectrum Expert is a dedicated spectrum analysis tool designed to identify and analyze non-Wi-Fi interference sources at Layer 1. During a post-deployment site survey, it can detect interference from various devices such as cordless phones, Bluetooth devices, microwave ovens, video cameras, and other unlicensed RF emitters. The tool provides a visual representation of the RF environment across the frequency spectrum, allowing engineers to pinpoint the exact source of interference and characterize it by duty cycle, frequency, and interference pattern. A network analysis module (Option A) operates at Layer 2 and above, unable to detect non-802.11 RF emissions.

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