

# New 350-101 Test Simulator - 100% Pass Quiz First-grade Cisco 350-101 - Test Implementing and Operating Cisco Wireless Core Technologies Quiz



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## Cisco 350-101 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>802.11 Technology Fundamentals: Covers Wi-Fi governance bodies, regional channel and power regulations, and the core technical principles of 802.11 including modulation, channel width, MIMO, topologies, and frame types.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Wireless Network Operation: Covers initial configuration of Cisco wireless infrastructure, AP discovery and join processes, AP modes, WLAN setup, and client management policies across platforms like Catalyst Center, ISE, and Spaces.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>Wireless Network Implementation: Covers Cisco wireless deployment architectures (Fabric, Mesh, Local, Cloud), physical infrastructure setup, and configuring management access for APs, WLCs, and dashboards.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>RF Fundamentals: Covers the behavior of radio waves, how RF signals are measured and interpreted, the mathematics behind RF calculations, and the characteristics of Wi-Fi antennas.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>Wireless Monitoring and Management: Covers network maintenance tasks, client monitoring configuration, troubleshooting client connectivity issues, and integrating with external devices and platforms.</li> </ul>

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## Cisco Implementing and Operating Cisco Wireless Core Technologies Sample Questions (Q27-Q32):

### NEW QUESTION # 27

A network engineer must isolate all guest users connected to the WLAN on a Cisco 9800 WLC so they cannot communicate with each other but can access the internet. The WLAN must meet these requirements:

\*SSID named VisitorAccess assigned to VLAN 30

\*guests prohibited from sharing files with other guests

\*must be scalable to multiple access points in the building

Which action must the network engineer take to meet the requirements?

- A. Enable multicast mode and associate a RADIUS server with the guest WLAN.
- B. Set up a FlexConnect group and use local switching for the guest WLAN internet access.
- C. Set up local authentication and map the WLAN to a dedicated guest VLAN.
- **D. Enable P2P blocking in the policy profile and map the WLAN to a dedicated guest VLAN.**

**Answer: D**

Explanation:

The requirement is guest client isolation, not merely guest authentication or internet breakout. On a Catalyst 9800 WLC, peer-to-peer blocking is the correct control because it prevents wireless clients associated to the same WLAN from communicating directly with one another. Cisco defines peer-to-peer blocking as a WLAN security feature applied to individual WLANs, where each client inherits the WLAN's P2P blocking behavior, and traffic can be bridged locally, dropped, or forwarded upstream. For this scenario, the appropriate action is the drop behavior, because guest-to-guest file sharing must be prohibited while upstream internet access remains available.

The dedicated guest VLAN, VLAN 30, provides traffic segmentation from production networks and creates a clean policy boundary for VisitorAccess. Cisco's Catalyst 9800 configuration model maps WLANs to policy profiles, and the policy profile defines client network and switching policy, including VLAN association.

Options B, C, and D do not solve client isolation: local authentication validates users, FlexConnect/local switching changes traffic forwarding behavior, and multicast/RADIUS does not block unicast guest-to-guest traffic. Reference topics: Client Connectivity Configuration - guest WLAN design, P2P blocking, VLAN segmentation, and Catalyst 9800 WLAN-to-policy mapping.

### NEW QUESTION # 28

A business is deploying Cisco Catalyst 9100 APs managed by Catalyst 9800 WLCs. The IT team needs policies that adapt based on user identity and device posture and also provide visibility into device activity and location. Which configuration meets these requirements?

- A. Configure Cisco Catalyst Center assurance for visibility and apply static per-service set identifier virtual LAN assignments without Cisco ISE integration.
- B. Use Cisco Catalyst 9800 ACLs combined with mobile device management integration without Catalyst Center or Catalyst Spaces.
- C. Integrate Cisco ISE for identity-based policies and omit mobile device management and location services.
- **D. Integrate Cisco Catalyst Center with Cisco ISE for policy control, add mobile device management for posture checks, and use Cisco Spaces for location visibility.**

**Answer: D**

Explanation:

To enforce adaptive policies based on user identity, device posture, and provide comprehensive visibility into device activity and location, Cisco recommends integrating Cisco Catalyst Center, Cisco ISE, and Cisco Spaces. Cisco ISE provides identity-based access control and posture assessment, allowing dynamic policy enforcement for users and devices. Mobile device management integration further extends posture checks for endpoint compliance. Cisco Catalyst Center enables real-time assurance and monitoring of network performance, device activity, and service health, while Cisco Spaces provides location analytics and visibility of client devices across the wireless environment. Option B relies solely on ACLs and MDM, which cannot provide full network-wide visibility or context-aware policy enforcement. Option C enables visibility via Catalyst Center but lacks dynamic identity and

posture-based policies because it omits ISE integration. Option D integrates ISE but neglects device posture and location visibility, failing to meet all requirements. The combination in Option A ensures that adaptive policies can respond to real-time user and device conditions, enforce compliance, and provide actionable insights for network operations. Reference topics: Wireless Monitoring and Management - Catalyst Center assurance, Cisco ISE integration, mobile device posture, Cisco Spaces location analytics.

### NEW QUESTION # 29

What does a low SNR value result in?

- A. Activation of automatic failover features
- B. Scheduling of firmware maintenance windows
- C. Decreased data integrity with possible errors
- D. Improved channel reliability

**Answer: C**

Explanation:

The Signal-to-Noise Ratio (SNR) is an important metric used to determine the quality of a wireless signal. It compares the strength of the signal to the level of background noise. A low SNR indicates that the signal is weak relative to the noise, leading to poor signal quality.

Option D: Decreased data integrity with possible errors is the correct answer. When SNR is low, the quality of the data transmission is compromised. The noise interferes with the signal, leading to potential data errors and a decrease in data integrity. This can cause packets to be lost or corrupted, requiring retransmissions, and reducing the overall performance and reliability of the network.

Option A: Scheduling of firmware maintenance windows is not directly related to SNR. Firmware maintenance is unrelated to signal quality, though it might be necessary for other reasons, such as performance optimization or bug fixes.

Option B: Activation of automatic failover features is typically used in scenarios where there is network equipment failure or poor connection quality, but it is not directly triggered by low SNR values.

Option C: Improved channel reliability is the opposite of what happens when SNR is low. Low SNR leads to unreliable communication, not improved reliability.

Therefore, Option D is correct, as a low SNR results in decreased data integrity due to possible errors in the transmission process.

### NEW QUESTION # 30

A wireless administrator must configure detailed and comprehensive monitoring for client devices across branch locations. The team wants to streamline operations for faster response during performance degradation. To support the organization's growth, the administrator needs a centralized reporting platform that displays aggregated data. Which solution must the administrator use to monitor the clients in the network?

- A. Use Cisco Catalyst Center Assurance.
- B. Use the WLC dashboard.
- C. Run show logging on WLC CLI.
- D. Implement central syslog server.

**Answer: A**

Explanation:

Cisco Catalyst Center Assurance is the correct solution because the requirement is centralized, scalable, multi-site client monitoring with aggregated health and troubleshooting data. Cisco states that Catalyst Center Assurance provides a Client health dashboard and supports both wired and wireless clients. It is specifically used to obtain a global view of all client device health and determine whether issues require action.

This directly matches the need for monitoring clients across branch locations and responding faster during performance degradation. Catalyst Center Assurance also provides location-based visibility, health scoring, client trend analysis, onboarding failure reasons such as AAA or DHCP, and Client 360 views for detailed troubleshooting. Cisco documents that Client 360 provides detailed client connectivity troubleshooting, including what problem occurred, when it occurred, why it occurred, and whether the impact is isolated or widespread. Cisco's Catalyst Center data sheet further describes Network and Client Health dashboards as giving administrators a high-level overview of every network device and client, with expansion by geographical site, device list, client list, or topology. Syslog, WLC CLI logging, and a local WLC dashboard are useful operational tools, but they do not provide enterprise-scale assurance analytics. Reference topics:

Wireless Monitoring and Management - Catalyst Center Assurance, Client Health, Client 360, centralized wireless monitoring, and operational analytics.

### NEW QUESTION # 31

An onsite engineer is working to connect devices to the wireless network using central switching in a corporate environment. Security protocols and network-specific settings must be configured as per enterprise policy. After the initial wireless settings are applied on an iOS tablet, the engineer must ensure that VLAN ID

10 is assigned on the client device to complete a successful enterprise Wi-Fi connection. Which action meets this requirement?

- A. Configure the AP to assign VLAN ID 1 by default and rely on the switch to redirect traffic to VLAN 10 based on MAC address filtering.
- B. Disable VLAN tagging on the WLAN and configure the APs switch port as an access port on VLAN 10 to assign the VLAN to the client device.
- C. Manually set VLAN ID 10 on the iOS tablets Wi-Fi settings to ensure VLAN 10 is allowed through the APs switch port.
- **D. Configure the policy profile to use VLAN 10, and ensure the WLAN profile is mapped to it.**

**Answer: D**

Explanation:

In a centrally switched deployment, the WLAN traffic is tunneled via CAPWAP from the AP to the WLC, where VLAN assignment occurs. To ensure that client devices are placed into the correct VLAN (in this case, VLAN 10), the WLAN policy profile must define the VLAN mapping. This allows the WLC to tag client traffic appropriately when forwarding to the upstream switch. Option C is correct because it configures the WLAN profile (policy profile) with VLAN 10, ensuring all clients associating with the WLAN are mapped to the proper VLAN automatically. Option A is incorrect because VLAN tagging is managed centrally on the WLC, and access ports at the AP are typically trunked or transparent in central switching mode. Option B is invalid; manually configuring VLAN on client devices is not feasible or scalable in enterprise deployments and does not integrate with CAPWAP central switching. Option D is also incorrect; relying on MAC-based redirection introduces complexity and is not standard practice for VLAN assignment in centrally switched networks. Cisco Wireless Core Technologies recommend using policy profiles to centrally enforce VLANs, simplifying management, ensuring security compliance, and supporting consistent enterprise Wi-Fi connectivity. Reference topics: Client Connectivity Configuration - VLAN assignment, WLAN policy profiles, centrally switched deployments, Cisco Catalyst 9800 WLC.

### NEW QUESTION # 32

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