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## Cisco 350-101 Exam Syllabus Topics:

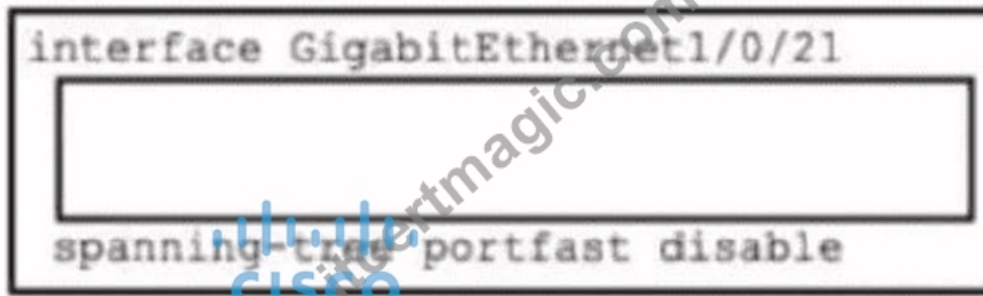
Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>802.11 Technology Fundamentals: Covers Wi-Fi governance bodies, regional channel and power regulations, and the core technical principles of 802.11 including modulation, channel width, MIMO, topologies, and frame types.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Client Connectivity Configuration: Covers configuring authentication both on and off the controller, setting up client connectivity across different operating systems, roaming behavior, and wireless guest network configuration.</li> </ul>
Topic 3	<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>
Topic 4	<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 5	<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 6	<ul style="list-style-type: none"> <li>Automation and AI: Covers Python scripting basics, NETCONF</li> <li>YANG, wireless API interpretation, and AI-driven analytics, operations, and radio resource management within Catalyst Center.</li> </ul>

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### Cisco Implementing and Operating Cisco Wireless Core Technologies Sample Questions (Q28-Q33):

#### NEW QUESTION # 28



Refer to the exhibit. An engineer is configuring a switch port for a Cisco Spaces deployment at a new branch site. The Spaces connector requires access to the management VLAN 30. The network team plans to add more analytics services in the future, so the configuration must also allow for easy scalability and avoid service interruption for currently connected devices and default switch VLAN settings. Which set of commands must be added to the box in the CLI to complete the configuration?

- A. switchport mode accessswitchport access vlan 30
- B. switchport mode accessswitchport trunk allowed vlan 30switchport access native vlan
- C. switchport mode trunkswitchport trunk allowed vlan 30
- D. switchport mode accessswitchport trunk allowed vlan 30switchport trunk native vlan none

**Answer: C**

Explanation:

The correct answer is D. Cisco Spaces connector deployments often require a VLAN on which the connector is reachable for management or data, and Cisco Spaces wired gateway guidance identifies the connector VLAN as the VLAN used for communication to the connector. The same guidance also supports multiple source VLANs for monitored wired devices, which aligns with the requirement for future analytics-service scalability.

A trunk port is the proper design choice because it can carry multiple VLANs over the same physical interface. Cisco Catalyst switch documentation states that an access port carries traffic for only one VLAN, while an IEEE 802.1Q trunk carries multiple VLANs and supports tagged traffic. The command switchport trunk allowed vlan 30 limits the trunk initially to VLAN 30, satisfying the current management VLAN requirement without changing the native VLAN or other default VLAN settings. Cisco also documents that an allowed VLAN list limits VLAN membership only on the associated trunk port, so it does not affect other switch ports.

Option A works only for a single untagged VLAN and is less scalable. Options B and C mix access mode with trunk-only commands and are syntactically or operationally invalid. Reference topic: Wireless Monitoring and Management - Cisco Spaces connector deployment, VLAN reachability, trunking, and analytics service scalability.

#### NEW QUESTION # 29

What is a benefit of using AI Enhanced RRM over traditional RRM?

- A. It includes legacy client modes.
- B. It encrypts stored telemetry results.
- C. It leverages historical data.
- D. It reacts to current the condition of network.

**Answer: C**

Explanation:

AI Enhanced Radio Resource Management (RRM) in Cisco wireless networks improves upon traditional RRM by leveraging historical data in addition to real-time measurements to optimize network performance.

Traditional RRM reacts primarily to instantaneous conditions, such as current interference or load, and adjusts parameters like transmit power and channel assignment accordingly. In contrast, AI Enhanced RRM uses historical telemetry to identify patterns, predict congestion, and preemptively adjust network parameters, providing a more stable and high-performing wireless environment. This predictive capability allows the system to make informed adjustments for channel reuse, load balancing, and interference mitigation before network degradation occurs. While real-time adjustments are still made, the inclusion of historical data allows for smarter decisions and more consistent client experience. Options A and B do not describe the core benefits of AI Enhanced RRM, as legacy client support or telemetry encryption are unrelated to predictive or adaptive resource management. Option C only highlights reactive behavior, which is a characteristic of traditional RRM, not AI Enhanced RRM. Cisco documentation and design guides emphasize that AI Enhanced RRM's key advantage is its predictive approach using historical analytics, enabling proactive network optimization across high-density or dynamic wireless environments. Reference topics: Automation and AI - AI Enhanced RRM, predictive network management, historical telemetry, channel and power optimization.

### NEW QUESTION # 30

A deployment requires that several APs be connected to edge switches, and each AP must support management and guest Wi-Fi traffic. The APs tag guest traffic separately from management, and the organization expects to add more VLANs for IoT and voice soon, so the configuration must support scalability. The security team requires that guest traffic never mix with internal resources. Which port configuration must be used for the switch interfaces that connect to the APs?

- A. Set a trunk port with the management VLAN as the native VLAN, and allow only management and user VLANs.
- B. Implement switch port access with the native VLAN for guest traffic and trunk with the management VLAN.
- C. Configure the central Layer 3 switch port as an access VLAN port that allows the management VLAN only.
- D. Make the port an access port on the management VLAN because all traffic is tunneled back to the WLC.

**Answer: A**

Explanation:

The switch interfaces connected to the APs must be configured as 802.1Q trunk ports. The requirement states that AP management and guest Wi-Fi traffic must remain separate, and additional VLANs for IoT and voice are expected. An access port supports only one VLAN, so it cannot scale for multiple locally tagged client VLANs. Cisco's Catalyst AP guidance states that when multiple VLANs are used for client traffic, the AP switch port should trunk the VLANs, and management traffic is untagged; when a management VLAN is used, it should be configured as the native VLAN on the switch port. Cisco's Catalyst 9800 FlexConnect documentation also shows the AP connected to a trunk port with a native VLAN for AP IP connectivity and a separate VLAN for locally switched client traffic.

Option C is therefore correct: configure a trunk, set the AP management VLAN as native, and restrict the allowed VLAN list to only required management and client VLANs such as guest, IoT, and voice. This supports segmentation and prevents unnecessary internal VLAN exposure. Reference topics: AP switch-port design, 802.1Q trunks, native VLANs, client VLAN tagging, FlexConnect/local switching, and guest traffic segmentation.

### NEW QUESTION # 31

Which Cisco Ultra-Reliable Wireless Backhaul process enables devices to establish a reliable connection with the next AP along their path before losing connectivity to the current one in a wireless network during roaming?

- A. Open roaming
- B. 802.11v high speed roaming
- C. Fast client handoff
- D. Make-before-break handover logic

**Answer: D**

Explanation:

The correct answer is Make-before-break handover logic. This is a key feature in Cisco's Ultra-Reliable Wireless Backhaul (URWB) process that allows devices to establish a connection to the next AP (Access Point) before disconnecting from the current AP. This seamless transition ensures that there is no disruption in the wireless connection as the client roams between APs, which is especially important in environments where consistent, low-latency connectivity is essential, such as in real-time applications (e.g., voice or video).

Option A (Open roaming) refers to a method of allowing devices to roam freely across networks, but it doesn't address the specific

need for a seamless handover process.

Option B (Fast client handoff) refers to methods used to speed up the roaming process, but it doesn't specifically ensure that the next AP is connected before disconnecting from the current one.

Option C (802.11v high speed roaming) is an IEEE standard feature that helps optimize roaming behavior for fast-moving devices, but make-before-break handover logic is the specific mechanism that allows for a seamless roaming experience.

Therefore, Make-before-break handover logic (Option D) is the correct answer as it directly addresses the need for devices to establish a reliable connection to the next AP during roaming before losing connectivity with the current one.

### NEW QUESTION # 32

A business requires a Cisco 9163E AP to act as a point-to-point connection between two buildings on campus.

No wired connection is available between the sites, and the AP must relay network traffic across the wireless link. The administrator must ensure that the AP is configured to forward Ethernet frames between its radio and Ethernet interfaces. Which CLI command must the administrator use to configure the AP for this application?

- A. ap name campus mode flexconnect
- B. ap name campus capwap mode mesh
- C. ap name campus mode bridge
- D. ap name campus capwap mode p2p

**Answer: C**

Explanation:

In point-to-point wireless deployments, the AP must act as a transparent bridge, forwarding Ethernet frames between the wired network interface and the wireless radio. The correct configuration command in Cisco IOS XE for a Cisco 9163E AP is `ap name < ap_name > mode bridge`. This sets the AP into bridge mode, allowing it to function as a Layer 2 relay between the two connected sites, effectively extending the Ethernet network over the wireless link. Option A, FlexConnect mode, is intended for APs to locally switch client traffic while maintaining CAPWAP control connectivity, not for bridging traffic between networks. Option B, `capwap mode p2p`, is not valid syntax in IOS XE; CAPWAP does not provide a dedicated P2P mode for Ethernet bridging. Option D, `capwap mode mesh`, configures the AP for mesh networking, which is for multi-hop client coverage rather than a direct point-to-point bridge. Cisco Wireless Core Technologies recommend bridge mode for point-to-point wireless links to maintain transparent forwarding, support VLAN tagging, and ensure seamless Layer 2 connectivity between remote buildings, which is essential for applications like IP telephony, security cameras, and campus LAN extension. Reference topics: Wireless Network Implementation - Bridge mode, point-to-point AP, Layer 2 traffic forwarding, Cisco 9163E configuration.

### NEW QUESTION # 33

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