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HP HPE7-A07 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Network Stack: This topic of the HP HPE7-A07 exam evaluates the ability of a senior HP RF network engineer to analyze and troubleshoot network solutions based on customer issues. Mastery of this ensures effective problem resolution in complex network environments.
Topic 2	<ul style="list-style-type: none">• Authentication• Authorization: Senior HP RF network engineers are tested on their skills in designing and troubleshooting AAA configurations, including ClearPass integration. This ensures that network access is securely managed according to the customer's requirements.

Topic 3	<ul style="list-style-type: none"> Connectivity: The topic covers developing configurations, applying advanced networking technologies, and identifying design flaws. It tests the skills of a senior HP RF network engineer in creating reliable, high-performing networks tailored to specific customer needs.
Topic 4	<ul style="list-style-type: none"> Network Resiliency and Virtualization: This section of the Aruba Certified Campus Access Mobility Expert Written exam assesses the expertise of a senior HP RF network engineer in designing and troubleshooting mechanisms for resiliency, redundancy, and fault tolerance. It is crucial for maintaining uninterrupted network services.
Topic 5	<ul style="list-style-type: none"> Troubleshooting: This topic of the HP HPE7-A07 Exam assesses skills of a senior HP RF network engineer in troubleshooting. It also assesses the ability to remediate issues in campus networks. It is vital for ensuring network reliability and minimizing downtime in critical environments.
Topic 6	<ul style="list-style-type: none"> Switching: Senior HP RF network engineers must demonstrate proficiency in implementing and troubleshooting Layer 2 3 switching, including broadcast domains and interconnection technologies. This ensures seamless and efficient data flow across network segments.
Topic 7	<ul style="list-style-type: none"> Routing: This Aruba Certified Campus Access Mobility Expert Written exam section measures the ability to design and troubleshoot routing topologies and functions, ensuring that data efficiently navigates through complex networks, a key skill for HP solutions architects.
Topic 8	<ul style="list-style-type: none"> Security: This topic evaluates the ability of a senior HP RF network engineer to design and troubleshoot security implementations, focusing on wireless SSID with EAP-TLS and GBP. It ensures the network is secure from unauthorized access and threats.

HP Aruba Certified Campus Access Mobility Expert Written Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

A customer is starting to test AAA on their edge switch interfaces. The client device support team is concerned about clients being denied access to the network due to mistakes in configuration or reachability to the authentication servers.

What should be enabled to address the concerns of the client device support team? (Select two)

- A. Configure onboarding-method concurrent
- B. Configure auth-mode multi-device
- C. Configure the critical role
- D. Configure port-access radius-override
- E. Configure the fallback role

Answer: C,E

Explanation:

Comprehensive and Detailed Explanation (Verified Extract from HPE Aruba Networking Switching Documentation) When implementing AAA (Authentication, Authorization, and Accounting) on Aruba CX switches, there are mechanisms to ensure that end-user devices maintain basic network connectivity even if authentication fails due to server unreachability or configuration errors. Two key mechanisms address this concern:

1. Critical Role

The critical role defines the local role that is automatically applied to a port or user session when:

- * The authentication server is unreachable, or
- * The authentication process cannot be completed due to network errors.

This ensures that endpoints (clients) can still obtain limited or temporary access to the network (for example, DHCP and DNS access) even when RADIUS is unavailable.

ArubaOS-CX Extract:

"When AAA authentication fails due to the RADIUS server being unreachable, the switch assigns the critical- role to the client, allowing limited access to the network until connectivity to the server is restored."

2. Fallback Role

The fallback-role defines a default role that the switch applies to any device that fails authentication or does not match any configured

authentication method (e.g., device profiling, MAC-auth, or 802.1X).

In lab or early deployment scenarios, this role provides baseline network access for devices that fail authentication but should not be entirely blocked.

ArubaOS-CX Extract:

"The fallback role allows clients that do not match any authentication or profiling method to obtain a defined level of access instead of being denied network connectivity." Option Analysis:

- * A. Configure onboarding-method concurrent # Used to enable multiple onboarding methods (802.1 X, MAC-auth, device profiling) concurrently; does not prevent network denial.
- * B. Configure the critical role # Correct. Ensures connectivity when AAA servers are unreachable.
- * C. Configure auth-mode multi-device # Controls how multiple clients share a port; unrelated to AAA fallback behavior.
- * D. Configure the fallback role # Correct. Provides network access to unauthenticated or failed-auth clients.
- * E. Configure port-access radius-override # Allows RADIUS to override local roles or VLANs; does not address reachability or failure handling.

Final Verified Answers: B, D

Reference Sources (HPE Aruba Official Materials):

- * Aruba AOS-CX Security and Access Configuration Guide - Port Access, AAA, and Roles
- * Aruba Certified Switching Professional (ACSP) Study Guide - AAA and Authentication Failover
- * ArubaOS-CX Fundamentals Guide - Critical and Fallback Role Configuration

NEW QUESTION # 22

Exhibit.

Which would explain this issue?

- A. HTTPS wildcard certificates are not supported
- **B. ".aruba-training.com needs to be entered in the Address field for the ClearPass Guest**
- C. HTTPS certificate is not required in ClearPass Guest.
- D. captiveportal-login aruba-training.com needs to be entered in the Address field for the ClearPass Guest

Answer: B

Explanation:

The correct address for the ClearPass Guest should match the FQDN of the HTTPS certificate installed on the device, which is often the FQDN of the vendor's product. This ensures secure and proper redirection to the captive portal during the authentication process. The FQDN should be entered in the Address field for ClearPass Guest configuration.

NEW QUESTION # 23

The ACME company has an AOS-CX 6200 VSF switch stack with an uplink over subscription ratio of 9.6:1.

They have indicated that their low-priority TCP traffic has been flagged with a DSCP marking coloring them yellow.

Refer to the exhibit.

They are considering adding two more nodes to the stack without adding any additional uplinks due to existing wiring constraints. One of their architects has suggested adding the following configuration:

What would be the impact of applying the acmethreshold profile as shown? (Select two.)

- A. VoIP packets egressing any queue on LAG1 will more likely be protected from uplink over-utilization
- **B. Yellow-flagged TCP traffic egressing LAG1 will be subject to drop probability**
- C. All TCP traffic egressing LAG1 will be subject to drop probability
- D. Only VoIP packets egressing queue 5 on LAG1 will likely be protected from uplink over-utilization.
- **E. All upper-layer protocol traffic egressing LAG1 will be subject to drop probability.**

Answer: B,E

Explanation:

Applying the 'acmethreshold' profile as shown in the exhibit would set a minimum and maximum threshold for queue 0, which affects the drop probability for traffic that exceeds these thresholds. The yellow marking indicates a medium drop precedence, so yellow-flagged traffic would be more likely to be dropped when congestion occurs, and the uplink is over-utilized. This action is intended to protect higher-priority traffic, such as VoIP, by giving it a lower probability of being dropped.

NEW QUESTION # 24

What directly affects the MCS used by wireless stations? (Select two.)

- **A. Retry rate**
- B. Channel utilization
- C. Frequency band
- D. Number of connected clients
- **E. SNR**

Answer: A,E

Explanation:

Comprehensive and Detailed Explanation (Verified Extract from HPE Aruba Networking Wireless Documentation) The Modulation and Coding Scheme (MCS) determines the data rate that a wireless station uses to transmit or receive data frames. The MCS index selection depends primarily on the signal quality and error conditions observed on the wireless link.

Two factors have a direct and measurable influence:

1. Signal-to-Noise Ratio (SNR)

A higher SNR means better signal quality and less interference, allowing the station to use higher-order modulations (e.g., 64-QAM, 256-QAM, 1024-QAM) corresponding to higher MCS indexes.

When SNR decreases, the client dynamically reduces its MCS rate to maintain reliability.

"Stations dynamically select the highest MCS index that the current SNR can support to maintain an acceptable frame error rate."

2. Retry Rate

The retry rate reflects retransmissions due to poor frame reception. A high retry rate indicates a high error rate, prompting the station to step down to a lower MCS to improve link stability.

"If retransmissions increase, the MCS rate is reduced until the error rate stabilizes." Other Options Explanation:

- * B. Channel utilization: affects airtime efficiency but not MCS selection directly.
- * C. Number of connected clients: impacts contention and throughput, not MCS per station.
- * E. Frequency band: influences propagation and SNR indirectly but does not directly control MCS selection.

Final Verified Answers: A and D

Reference Sources (HPE Aruba Official Materials):

- * Aruba Wi-Fi 6/6E Radio Optimization Guide - Rate Adaptation and MCS Selection
- * Aruba Certified Mobility Professional (ACMP) Study Guide - Radio Performance and RF Optimization
- * Aruba WLAN Design Fundamentals - SNR, RSSI, and Rate Adaptation Mechanisms

NEW QUESTION # 25

Exhibit.

Which statement is true?

- **A. The SSID supports 802.11ac clients.**
- B. The SSID supports sending neighbor reports.
- C. The SSID supports implicit beamforming.
- D. The SSID supports RC4 encryption.

Answer: A

Explanation:

The SSID supports 802.11ac clients, which is indicated by the "High Throughput" and "Very High Throughput" options being enabled. These are terms associated with the 802.11ac wireless standard, indicating that the SSID can serve clients that support this technology.

NEW QUESTION # 26

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