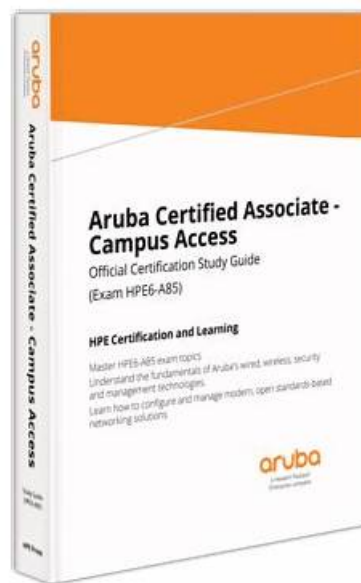


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### HP Aruba Campus Access Associate Exam Sample Questions (Q11-Q16):

#### NEW QUESTION # 11

What is the correct command to add a static route to a class-c-network 10.2.10.0 via a gateway of 172.16.1.1?

- A. ip route 10.2.10.0/24 172.16.1.1
- B. **ip-route 10.2.10.0/24 172.16.1.1**
- C. ip route 10.2.10.0.255.255.255.0 172.16.1.1 description aruba
- D. ip route-static 10.2 10.0.255.255.255.0 172.16.1.1

**Answer: B**

Explanation:

The correct command to add a static route to a class-c-network 10.2.10.0 via a gateway of 172.16.1.1 is ip-route 10.2.10.0/24 172.16.1.1. This command specifies the destination network address (10.2.10.0) and prefix length (/24) and the next-hop address (172.16.1.1) for reaching that network from the switch.

The other commands are either incorrect syntax or incorrect parameters for adding a static route.

References: [https://www.arubanetworks.com/techdocs/AOS-CX\\_10\\_04/NOSCG/Content/cx-noscg/ip-routing/sta](https://www.arubanetworks.com/techdocs/AOS-CX_10_04/NOSCG/Content/cx-noscg/ip-routing/sta)

#### NEW QUESTION # 12

What are the main characteristics of the 6 GHz band?

- A. **In North America, the 6 GHz band offers more 80 MHz channels than there are 40 MHz channels in the 5 GHz band.**
- B. Less RF signal is absorbed by objects in a 6 GHz WLAN.
- C. The 6 GHz band is fully backward compatible with the existing bands.
- D. Low Power Devices are allowed for indoor and outdoor usage.

**Answer: A**

Explanation:

The main characteristic of the 6 GHz band that is true among the given options is that in North America, the 6 GHz band offers more 80 MHz channels than there are 40 MHz channels in the 5 GHz band. This characteristic provides more spectrum availability, less interference, and higher throughput for wireless devices that support Wi-Fi 6E. Wi-Fi Enhanced (Wi-Fi 6E) is an extension of Wi-Fi 6 (802.11ax) standard that operates in the newly available unlicensed frequency spectrum around 6 GHz in addition to existing bands below it. Some facts about this characteristic are:

\* In North America, there are up to seven non-overlapping channels available in each of three channel widths (20 MHz, 40 MHz, and 80 MHz) in the entire unlicensed portion of the new spectrum (5925-

7125 MHz). This means there are up to 21 non-overlapping channels available for Wi-Fi devices in total.

\* In comparison, in North America, there are only nine non-overlapping channels available in each of two channel widths (20 MHz and 40 MHz) in the entire unlicensed portion of the existing spectrum below it (2400-2483 MHz and 5150-5825 MHz). This means there are only up to nine non-overlapping channels available for Wi-Fi devices in total.

\* Therefore, in North America, there are more than twice as many non-overlapping channels available in each channel width in the new spectrum than in the existing spectrum below it.

\* Specifically, there are more than twice as many non-overlapping channels available at 80 MHz width (seven) than at 40 MHz width (three) in the existing spectrum below it.

The other options are not true because:

\* Less RF signal is absorbed by objects in a 6 GHz WLAN: This option is false because higher frequency signals tend to be more absorbed by objects than lower frequency signals due to higher attenuation. Attenuation is a general term that refers to any reduction in signal strength during transmission over distance or through an object or medium. Therefore, RF signals in a 6 GHz WLAN would be more absorbed by objects than RF signals in a lower frequency WLAN.

\* The 6 GHz band is fully backward compatible with existing bands: This option is false because Wi-Fi devices need to support Wi-Fi 6E standard to operate in the new spectrum around 6 GHz. Existing Wi-Fi devices that do not support Wi-Fi 6E standard cannot use this spectrum and can only operate in existing bands below it.

\* Low Power Devices are allowed for indoor and outdoor usage: This option is false because Low Power Indoor Devices (LPI) are only allowed for indoor usage under certain power limits and registration requirements. Outdoor usage of LPI devices is prohibited by regulatory authorities such as FCC Federal Communications Commission (FCC) is an independent agency of United States government that regulates communications by radio, television, wire, satellite, and cable across United States. However, outdoor usage of Very Low Power Devices (VLP) may be allowed under certain power limits and without registration requirements.

References: <https://www.wi-fi.org/discover-wi-fi/wi-fi-certified-6e> <https://www.wi-fi.org/file/wi-fi-alliance-spectrum-needs-study> [https://www.cisco.com/c/en/us/products/collateral/wireless/spectrum-expert-wi-fi/prod\\_white\\_paper0900aecd807395a9.html](https://www.cisco.com/c/en/us/products/collateral/wireless/spectrum-expert-wi-fi/prod_white_paper0900aecd807395a9.html) <https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/82068-power-levels.html> <https://www.wi-fi.org/file/wi-fi-alliance-unlicensed-spectrum-in-the-us>

### NEW QUESTION # 13

You are in a meeting with a customer where you are asked to explain the network redundancy feature Multiple Spanning Tree (MSTP). What is the correct statement for this feature?

- A. MSTP configuration ID revision by default as switch serial number
- B. MSTP configuration ID revision by default as current MSTP root priority
- **C. MSTP configuration ID name by default using switch IMC address**
- D. MSTP configuration ID name by default using switch serial number

**Answer: C**

Explanation:

MSTP Multiple Spanning Tree Protocol. MSTP is an IEEE standard protocol for preventing loops in a network with multiple VLANs. MSTP allows multiple VLANs to be mapped to a reduced number of spanning-tree instances. Configuration ID consists of two parameters: name and revision. The name is a 32-byte ASCII string that identifies the MSTP region, which is a group of switches that share the same configuration ID and VLAN-to-instance mapping. The revision is a 16-bit number that indicates the version of the configuration ID. By default, the MSTP configuration ID name is set to the switch IMC address, which is a unique identifier derived from the MAC address Media Access Control address. MAC address is a unique identifier assigned to a network interface controller (NIC) for use as a network address in communications within a network segment. of the switch. References: [https://www.arubanetworks.com/techdocs/ArubaOS\\_86\\_Web\\_Help/Content/arubaos-solutions/mstp/mstp.htm](https://www.arubanetworks.com/techdocs/ArubaOS_86_Web_Help/Content/arubaos-solutions/mstp/mstp.htm)

### NEW QUESTION # 14

What does the Aruba role-based access control feature provide?

- A. It assigns VLANs to user roles.
- B. It restricts users to specific network segments based on their device type.
- **C. It provides dynamic firewall rules based on user identity.**
- D. It automates the deployment of network devices.

**Answer: C**

### NEW QUESTION # 15

What does WPA3-Personal use as the source to generate a different Pairwise Master Key (PMK) each time a station connects to the wireless network?

- A. Opportunistic Wireless Encryption (OWE)
- **B. Session-specific information (MACs and nonces)**

- C. Key Encryption Key (KEK)
- D. Simultaneous Authentication of Equals (SAE)

**Answer: B**

Explanation:

Explanation

The source that WPA3-Personal uses to generate a different Pairwise Master Key (PMK) each time a station connects to the wireless network is session-specific information (MACs and nonces). WPA3-Personal uses Simultaneous Authentication of Equals (SAE) to replace PSK authentication in WPA2-Personal. SAE is a secure key establishment protocol that uses a Diffie-Hellman key exchange to derive a shared secret between two parties without revealing it to an eavesdropper. SAE involves the following steps: The station and the access point exchange Commit messages that contain their MAC addresses and random numbers called nonces. The station and the access point use their own passwords and the received MAC addresses and nonces to calculate a shared secret called SAE Password Element (PE).

The station and the access point use their own PE and the received MAC addresses and nonces to calculate a shared secret called SAE Key Seed (KS).

The station and the access point use their own KS and the received MAC addresses and nonces to calculate a shared secret called SAE Key Confirmation Key (KCK).

The station and the access point use their own KCK and the received MAC addresses and nonces to calculate a confirmation value called SAE Confirm.

The station and the access point exchange Confirm messages that contain their SAE Confirm values.

The station and the access point verify that the received SAE Confirm values match their own calculated values. If they match, the authentication is successful and the station and the access point have established a shared secret called SAE PMK.

The SAE PMK is different for each session because it depends on the MAC addresses and nonces that are exchanged in each authentication process. The SAE PMK is used as an input for the 4-way handshake that generates the Pairwise Temporal Key (PTK) for encrypting data frames.

The other options are not sources that WPA3-Personal uses to generate a different PMK each time a station connects to the wireless network because:

Opportunistic Wireless Encryption (OWE): OWE is a feature that provides encryption for open networks without requiring authentication or passwords. OWE uses a similar key establishment protocol as SAE, but it does not generate a PMK. Instead, it generates a Pairwise Secret (PS) that is used as an input for the 4-way handshake that generates the PTK.

Simultaneous Authentication of Equals (SAE): SAE is not a source, but a protocol that uses session-specific information as a source to generate a different PMK each time a station connects to the wireless network.

Key Encryption Key (KEK): KEK is not a source, but an output of the 4-way handshake that generates the PTK. KEK is used to encrypt group keys that are distributed by the access point.

References: <https://www.wi-fi.org/discover-wi-fi/wi-fi-certified-6e>

<https://www.wi-fi.org/file/wi-fi-alliance-unlicensed-spectrum-in-the-us>

<https://www.cisco.com/c/en/us/products/collateral/wireless/catalyst-9100ax-access-points/wpa3-dep-guide-og.ht>

<https://info.support.huawei.com/info-finder/encyclopedia/en/WPA3.html>

<https://rp.os3.nl/2019-2020/p99/presentation.pdf>

## NEW QUESTION # 16

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