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## HP HPE7-A03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Architect the Solution: It measures your knowledge about identifying the solution options, designing high-level topologies, selecting the correct products, and determining the suitable overlay and underlay design. Additionally, the topic discusses how to verify that the design meets the original requirements.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Propose the Solution: The focal point of this topic is creating the design documentation and the final design. Moreover, the topic also focuses on presenting the solution.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Analyze Requirements: It focuses on determining possible high-level solutions. The topic also discusses mapping the needs into technical solutions and evaluating the proposed solution against project objectives and dependencies. Moreover, it also focuses on documenting assumptions.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Discover Requirements: This topic defines the goals and identifies the current environment and the objectives. Lastly, it also focuses on collecting information.</li></ul>

## HP Aruba Certified Campus Access Architect Exam Sample Questions (Q109-Q114):

### NEW QUESTION # 109

What are the considerations when using existing MMF and upgrading to equipment capable of 10 GbE speeds? (Select two)

- A. single fiber tube into cabinet
- B. length of MMF fiber
- C. redundant fiber tube into cabinet
- D. type of MMF fiber
- E. type of fiber connector

**Answer: B,D**

Explanation:

When upgrading existing Multimode Fiber (MMF) infrastructure to accommodate equipment capable of 10 GbE speeds, two primary considerations are the length of the MMF fiber (Option A) and the type of MMF fiber (Option C). The length of the fiber impacts the signal quality and bandwidth capacity, with longer lengths potentially requiring signal conditioning or different types of fiber to support higher speeds. The type of MMF fiber, such as OM1, OM2, OM3, or OM4, significantly affects its bandwidth capabilities and distance limitations at 10 GbE speeds. OM3 and OM4 fibers are designed to support 10 GbE transmissions over longer distances compared to OM1 and OM2, making them more suitable for upgrades to higher speeds. Understanding these factors is crucial to ensure the existing fiber infrastructure can support the desired network performance without extensive modifications or replacements.

### NEW QUESTION # 110

A global cruise line company needs to refresh its current fleet. They will refresh the insides of the ship to be cost-effective and increase their sustainability. They will replace the complete WLAN/LAN hardware of the ship. In this refresh, the company will not refresh its current security requirements. The CIO also wants to limit the number of unused ports in the switches. Future expansion will always mean a refresh of hardware.

They start with the smallest ship with a maximum of 800 guests

Each ship has a LAN infrastructure consisting of two core switches, up to 10 redundant distribution switches, and up to 500 access switches (400 cabins, 100 technical rooms). The Core switches are located in the MDF of the ship and the distribution switches are located in the IDF of the ship. Each cabin and technical room gets one single access switch.

The cabling structure of the ship will not be refreshed. Each IDF is connected to the MDF by SMF, of which two pairs are available for the interconnect between the core and distribution. The length of SM fiber between MDF and IDF is less than 300 meters (930

ft) and the type used is OS1. Each cabin is connected by a single OM2 pair to the IDF. the maximum length is 60 meters (200 ft). Each technical room is connected by a single OM2 pair to the IDF. with lengths between 100 and 150 meters (320 and 500 ft). For each cabin/technical room the customer is looking to replace their current fan-less 2530/2540 without changing the requirements, except they need to upgrade the uplink to distribution switch to 10GbE to handle the increased network traffic, and the technical rooms need redundant power. The WLAN infrastructure will be 1:1 refreshed without new cabling or new AP locations. Their WLAN Infrastructure is based on the 200/300 series Indoor and outdoor APs running instantOS (less than 300 APs). the customer has no change in WLAN requirements. The cruise line company will replace its current Internet connection before the LAN/WLAN refresh. The new Internet connection will provide a 99.8% uptime, which is needed to ensure the paid guest Wi-Fi is always operational. With this new internet connection, the CIO of the cruise line wants to base the design on the ESP architecture from Aruba because Internet connection is guaranteed. Based on the best practices, what should be recommended as the most cost-effective switch model for the technical rooms?

- A. HPE Aruba Networking 6200M 24G Class- PoE 4SFP\*
- B. HPE Aruba Networking 6200M 36G 12SR5 ClassG PoE 4SFP\*
- C. Aruba 6300M 12p Classd PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p SOG and Zp 10G
- D. HPE Aruba Networking 6300M 24p HPE Smart Rate 1 G/2.5G/5G/10G Class6 PoE and 2p 50G and 2 p 25G

**Answer: D**

Explanation:

For technical rooms requiring redundant power and an upgrade to 10GbE uplinks to handle increased network traffic, the most cost-effective switch model is the HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G Class6 PoE and 2p 50G and 2p 25G. This model offers the necessary port density and speed flexibility, with support for high-power PoE devices and uplink capabilities that meet the future-proofing needs for technical rooms on the cruise ships. The switch's redundant power capabilities ensure high availability and resilience for critical technical room infrastructure, aligning with the customer's requirements for sustainability, cost-effectiveness, and preparedness for future hardware refreshes without extensive unused port capacities.

#### NEW QUESTION # 111

The current IT staff is used to working with legacy OS-S (ProCurve) equipment. They are worried that they cannot handle OS-CX switches due to the different command syntax. What are two ways to make the transition easier for them? (Choose two.)

- A. CLI Reference Guide for OS-CX, OS-Switch, Comware and Cisco IOS
- B. create aliases
- C. ASP
- D. CLI Bank

**Answer: A,B**

Explanation:

To ease the transition for IT staff accustomed to legacy Aruba OS-S (ProCurve) equipment when moving to Aruba OS-CX switches, two effective approaches are creating aliases (Option A) and using the CLI Reference Guide for Aruba OS-CX, Aruba OS-Switch, Comware, and Cisco IOS (Option B). Aliases allow the creation of custom command shortcuts or mappings in Aruba OS-CX, which can mimic or resemble the commands staff are familiar with from Aruba OS-S, making the command-line interface (CLI) more intuitive for them. The CLI Reference Guide is an invaluable resource that provides a comparative view of commands across different operating systems, including Aruba OS-CX and Aruba OS-S, helping staff understand the equivalent commands and functionalities in the new OS-CX environment. Both these tools can significantly reduce the learning curve and help the IT staff become proficient with Aruba OS-CX switches more quickly.

#### NEW QUESTION # 112

ACME retail has 38 locations spread out across five US states and two provinces in Canada. They are looking to grow 20% over the next two years. They have an HQ with a staff of 200 employees. The organization has eight Regional Managers and two VPs who work from home and the road. Stores typically have 17 employees on average per location. The two warehouses have a remote loading system and 20 employees each to load the trucks and fulfill the online orders. The warehouse has 40-foot ceilings and large metal racks to store inventory. The main location is 240K sq ft (22300 sq m) and the

Canadian warehouse is 130K sq ft (12100 sq m). The forklifts on the loading docks are equipped with a wireless tablet on board. A typical store is reportedly about 60,000 sq ft (5575 sq m) and smaller stores are planned at 25,000 sq ft (2320 sq m). The locations need to expand the abilities to vendors that need to add setup displays or interactive kiosks in the stores. The current infrastructure was installed in 2015 and used wireless N technology in a coverage model. The wiring is Cat5, and they are unsure of the fiber connections. The inventory is all placed on the floor when it is delivered to the local store. Inventory control is handled through Zebra barcode scanners, and they have had a lot of issues in getting signals throughout the stores and this makes monthly inventory difficult. The organization has a small help desk to troubleshoot issues that happen at the retail locations and PC support for the office. The company is looking to upgrade away from the current PBX system later this year. With the need to grow and cut costs, they are interested in moving the data to the cloud but need to get almost real-time inventory control for the online service to function.

The network has all been wired over the last ten years, but with the new systems being all wireless, they have seen the trend to offer wireless to all the vendors for their needs but also would be to allow employees, guests, and contractors all to use it. With the new IT director starting next week, the project has been set by the CTO of the company. The marketing group has asked how they can interact with the customers and get more info, while the IT support desk needs to cut staff in half.

The office has an MDF and two IDF's located on floors one and two. The MDF is in the basement, and you have multiple WAN circuits for the HQ links. Each store has a local handoff from the cable company (ethernet) in the middle of the store in the office, so distance for the wiring is not an issue.

The customer has budget concerns but does want something that could last 7+ years.

What should the architect be concerned about regarding the solution? (Choose two.)

- A. multiple locations
- B. Regulatory Domains
- C. Active Directory
- D. IP addresses

**Answer: A,B**

Explanation:

In designing a network solution for ACME Retail, which operates across various regions in the US and Canada, the architect must consider Regulatory Domains and the challenges posed by multiple locations. Regulatory Domains are crucial because wireless standards and allowed frequencies vary by country, affecting how WLAN equipment is configured and deployed.

Compliance with local regulations is essential to avoid legal issues and ensure optimal network performance. The challenge of multiple locations involves ensuring consistent, high-quality network service across all sites, despite geographical distances and site-specific characteristics.

This requires a scalable, flexible network architecture that can be centrally managed while accommodating the unique needs of each location.

#### NEW QUESTION # 113

it has been identified that the client's existing network is having to retransmit packets due to possible hardware or configuration issues. A review of hardware configuration and transport reliability will need to be assessed prior to completing the new design. What should this phenomenon be classified as?

- A. ☐
- B. ☒
- C. ☐

**Answer: B**

Explanation:

The phenomenon where packets have to be retransmitted due to possible hardware or configuration issues is classified as "Loss," depicted in Option B. Packet loss occurs when one or more packets of data traveling across a network fail to reach their destination, which can be caused by errors in data transmission, typically resulting from network congestion, hardware failure, or configuration errors. When packet loss occurs, protocols like TCP ensure that the data is retransmitted so that the integrity of the communication is maintained. In a network design, ensuring the reliability of hardware and proper configuration is critical to minimize packet loss.

#### NEW QUESTION # 114

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