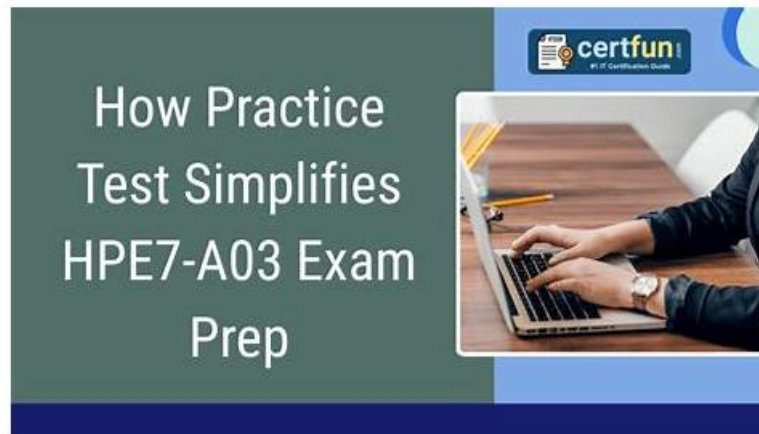


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HP HPE7-A03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Discover Requirements: This topic defines the goals and identifies the current environment and the objectives. Lastly, it also focuses on collecting information.
Topic 2	<ul style="list-style-type: none">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.
Topic 3	<ul style="list-style-type: none">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.
Topic 4	<ul style="list-style-type: none">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.

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HP Aruba Certified Campus Access Architect Exam Sample Questions (Q48-

Q53):

NEW QUESTION # 48

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 IDFs 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 (980 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 10 GbE 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 the Internet connection is guaranteed.

Based on best practices, what should you recommend as the correct optic type for the connection between the IDF and the cabins?

- A. 10G SFP+ LC SR 300 m MMF Transceiver
- B. 10GBASE-T SFP+ RJ-45 30 m Cat6A Transceiver
- C. 10G SFP+ LC LRM 220 m MMF Transceiver
- D. 10G LC BiDi 40 km 1330/1270 XCVR

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* Cabling Type in Use: Each cabin and technical room is connected to the IDF with a single OM2 multimode fiber pair. The maximum length to cabins is 60 meters, and to technical rooms 100-150 meters.

* Best Practice for 10 GbE over OM2: According to Aruba's Campus Access Design Guides and HPE Aruba CX switch transceiver support matrices:

* OM2 multimode fiber supports 10GBASE-SR optics up to 82 meters.

* Since the maximum run is 60 meters, 10GBASE-SR is fully supported with headroom.

* 10GBASE-LRM can reach 220 m on MMF, but is not required here because the fiber length is much shorter. SR optics are simpler, lower cost, and recommended in best practices when distances are within OM2 limits.

* 10GBASE-T RJ-45 (Cat6A) is not applicable, as the cabling is fiber, not copper.

* BiDi 40 km optics are for long-haul single-mode fiber links, not short multimode fiber runs.

* Aruba Validated Design Reference: Aruba's Validated Solution Guides for Campus Access state that for short multimode connections (OM2/OM3/OM4), the recommended transceiver type is 10GBASE-SR (SFP+ LC) as it provides the most cost-effective and reliable option within the supported reach.

* Requirement Mapping:

* Uplinks to access switches in cabins/technical rooms must be 10 GbE capable.

* The OM2 cabling length (60-150 m) is within the supported distance for 10GBASE-SR.

* Therefore, the correct and most efficient optic choice is 10G SFP+ LC SR 300 m MMF Transceiver.

Final Justification:

Option B is correct because 10GBASE-SR over OM2 supports the required distances, aligns with Aruba design best practices, and avoids unnecessary cost/complexity of LRM or BiDi optics.

Reference Extracts (Aruba Official Study & Design Guides):

* Aruba Campus Access Design Guide: recommended transceiver selection for MMF cabling.

* Aruba CX Transceiver Guide: 10GBASE-SR supports OM2 up to 82 m, OM3 up to 300 m, OM4 up to 400 m

* Aruba Validated Solution Guide: Always select SR optics for OM2 # 82 m runs as the cost-effective standard.

NEW QUESTION # 49

XYZ Regional Hospital is an integrated healthcare system of hospitals, neighborhood health centers, and small doctor offices. XYZ Regional Hospital has recently merged with 4x neighborhood health centers and 125 doctor branch offices. The wireless, wired access, and AAA solutions are outdated and need to be replaced

XYZ Regional Hospital is looking to future-proof and improve efficiency across all sites by enhancing wired and wireless access and migrating to a centralized and unified wired/wireless and policy management that can provide uninterrupted availability of all systems.

Locations:

- XYZ Regional Hospital is located in New York City
- Dila Health Center is located in City A
- Mount Health Center is located in City B
- Rock Health Center is located in City C
- Branch clinics are located at different locations across the United States Requirements:
- Provide, via management software, one single pane of glass to manage wired and wireless IANs. and VPNs across campus, branch, and remote via web/cloud architecture providing near real-time Insight. troubleshooting tools, and Service Level performance reporting.
- Seamless integration across wired, wireless. WAN. SD-Branch. IoT
- Provide secure wireless access to all the employees of the Regional Hospital and partners, as well as provide wireless Internet access to medical citizens when they visit our facilities.
- All-access points must support the following features and specifications: 802.11ax (Wi-Fi 6E Certified)
- Security options including WP2/WPA3. 802.1X with Radius secure authentication
- Identify and authenticate every wireless and wired device
- End-to-end role-based security
- Seamless mobility across the hospital for medical learns, patients, and visitors
- Cuts Wi-Fi deployment times from days to hours and enables Zero-Touch deployments across the site
- Establishes a resilient, future-ready network infrastructure with the intelligence, scalability, and intuitive toolsets to meet emerging needs
- Fully redundant branch solution with dynamic path selection to the hospital The hospital CIO is interested in reviewing the phase 1 approach and framework that will be used to achieve the goals of the network refresh project.

What is the phase 1 task?

- **A. Kickoff the project to identify the team members involved, review the deliverables, expectations, timeframes, and begin the discovery/data collection.**
- B. Review the potential design options and further scope deployment efforts, phased implementation approaches, enablement options, and operational expertise requirements.
- C. The team will define and document a path for the current to future support model, including any staffing, skills, and professional development that is recommended.
- D. Meet with ITS NetworkTelecom and support staff following the knowledge lianstei sessions to educate the 11 s learn on campus, data center, and network security options

Answer: A

NEW QUESTION # 50

What possible issue with the cote switch selection do you see in regards to the customers' requirements?

- A. The cote switch will have a lot of unused ports.
- **B. The core switch will not support the 25GbE downlinks to the distribution switches.**
- C. The cote switch will not support the 10GbE downlinks to the cabins and technical rooms.
- D. The cote switch will not have enough ports for VSX links.

Answer: B

Explanation:

In the scenario described, the most significant issue with the core switch selection, according to Aruba Campus Access learning resources, is answer A: "The core switch will not support the 25GbE downlinks to the distribution switches." This is a critical consideration because the bandwidth capabilities between the core and distribution layers significantly impact the overall network performance and scalability. If the core switch cannot support 25GbE downlinks, it may create a bottleneck, preventing the distribution switches from operating at their full capacity and affecting the performance of connected devices and applications.

Ensuring the core switch has the necessary port speeds and densities to support the intended design and traffic patterns is crucial in network design, as emphasized in Aruba's documentation on campus network architectures.

NEW QUESTION # 51

You hired a junior engineer to assist you with a large-scale network infrastructure project. The engineer has never worked on such a complex project before and wants to better understand the role that each stakeholder will play in the project. What is the role of Network Operations in this project?

- A. responsible for supporting, troubleshooting, and monitoring the wired/wireless infrastructure
- B. responsible for authoring the low-level design and creating the configuration to meet the technical requirements
- C. responsible for Investigating IDS/IPS Incidents and managing firewalls
- D. responsible for establishing security policy and selecting security controls for the infrastructure

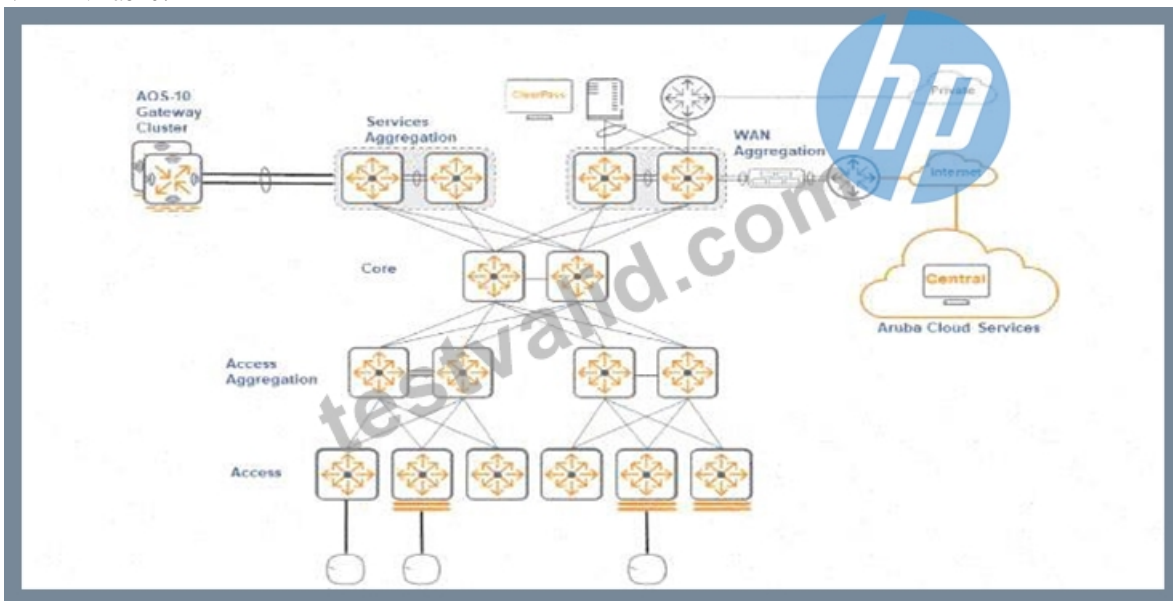
Answer: A

Explanation:

Network Operations is responsible for the ongoing support, monitoring, and troubleshooting of the wired and wireless infrastructure, ensuring continuous stability and performance during and after deployment.

NEW QUESTION # 52

Based on this campus design, click on the layer that is the most appropriate to be designed as a Stub Persona, considering an EVPN VXLAN Fabric?



Answer:

Explanation:

Service Aggregation

NEW QUESTION # 53

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