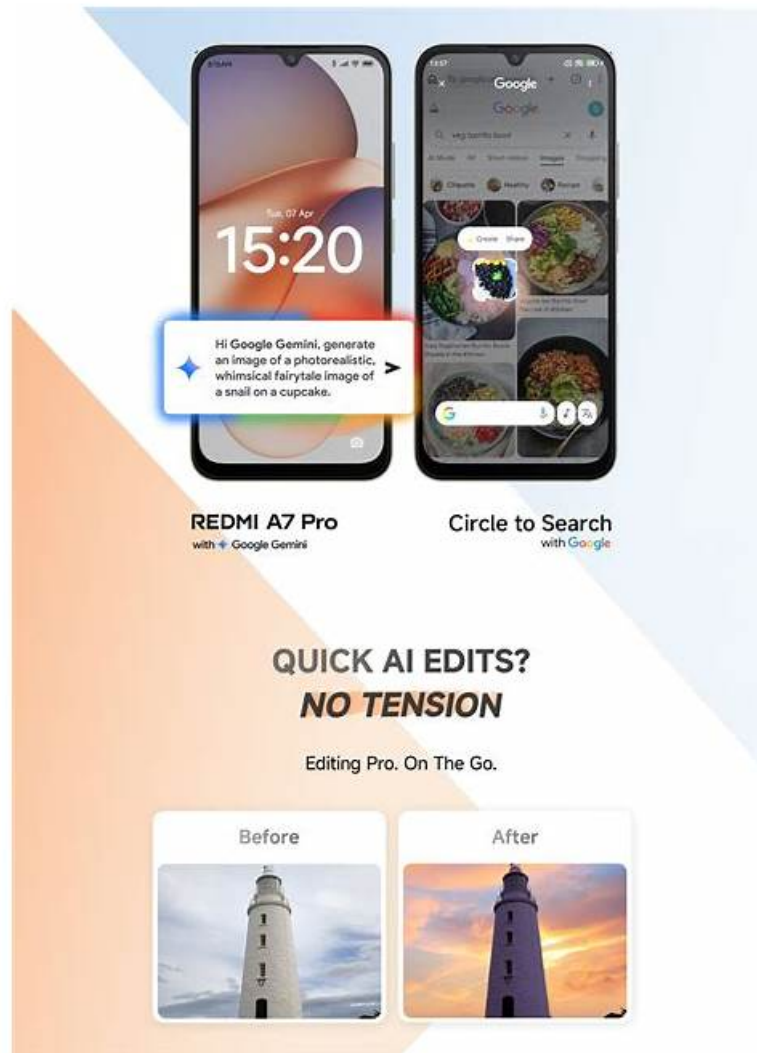


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HPE Network Campus Access Professional Architect Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

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 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 6300M 12p Class8 PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G
- B. HPE Aruba Networking 6200M 36G 12SR5 Class6 PoE 4SFP+
- C. HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G Class6 PoE and 2p 50G and 2p 25G
- D. HPE Aruba Networking 6200M 24G Class4 PoE 4SFP+

Answer: D

Explanation:

Port Count: The 6200M 24G switch provides enough Gigabit Ethernet ports to accommodate the technical rooms. Since each technical room is connected to a single access switch, this model strikes a balance between adequate port density and minimizing unused ports.

Power over Ethernet (PoE): Class 4 PoE capabilities are sufficient for powering devices typically used in technical rooms, such as network devices and potentially cameras or phones, without the need for excessive power delivery.

10GbE Uplinks: The switch has 4 SFP+ ports for uplinks, which can be utilized to connect to the distribution layer with 10GbE, meeting the requirement for increased network traffic handling.

Cost-Effectiveness: The 6200M series is designed for mid-sized environments, making it a more economical choice compared to higher-end models that may offer features beyond what is needed for the technical rooms.

NEW QUESTION # 71

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

Answer: D

Explanation:

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.

NEW QUESTION # 72

Which alternative source is best suited for site surveys or simulations if no floor plans are available?

- A. blank sheet of paper
- B. Google Maps
- C. simple wall drawings
- **D. fire escape plan**

Answer: D

Explanation:

When floor plans are not available for site surveys or simulations, the best alternative source to use is the fire escape plan (Option D). Fire escape plans are typically available in most buildings and provide a simplified layout of the premises, including walls, doors, and sometimes the location of permanent fixtures. While not as detailed as architectural floor plans, fire escape plans can offer enough information for initial site survey estimations and RF planning. They allow network designers to understand the basic layout and potential RF obstacles or coverage areas, making them a practical tool for preliminary wireless network planning and simulations in the absence of more detailed floor plans.

NEW QUESTION # 73

ACME retail has 38 locations spread out across Ave US states and two provinces in Canada.

They are looking to grow 20% over the next two years. They have an HO 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 st) 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 sqm) 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 like 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 HOF is in the basement, and you have multiple WAN circuits for the HO 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. The IT staff at ACME retail is asking for recommendations to support Aruba deployment. Based on the limited information provided, what training should you recommend?

- A. datasheets
- B. Airwave class
- C. Airheads community
- **D. HPE Aruba Networking Education Services training credits**
- E. YouTube

Answer: D

Explanation:

For ACME Retail's IT staff, who are looking to support an Aruba deployment, HPE Aruba Networking Education Services training credits would be the most beneficial recommendation.

These training credits offer access to comprehensive, formal training courses on Aruba products and solutions, covering various aspects such as design, implementation, administration, and troubleshooting. The structured curriculum provided by HPE Aruba Education Services is tailored to enhance the technical skills and knowledge of IT professionals, ensuring they are well-equipped to deploy, manage, and optimize Aruba networking solutions effectively. This formal training would be more effective than informal sources like datasheets, YouTube, or community forums for building a strong foundation in Aruba technologies and preparing the IT staff for the deployment and long-term management of the new network infrastructure.

NEW QUESTION # 74

A large multinational financial institution has contracted you to design a new full-stack wired and wireless network for their new 6-story regional office building. The bottom two floors of this facility will be retail space for a large banking branch. The upper floors will be carpeted office space for corporate users, each floor being approximately 100,000 sq ft (9290 sqm). Data centers are all off site and will be out of scope for this project. The customer is underserved by its existing L2-based network infrastructure and would like to take advantage of modern best practices in the new design. The network should be fully resilient and fault-tolerant, with dynamic segmentation at the edge. The retail space will include public guest Wi-Fi access. Retail associates will have corporate tablets for customer service, and there will be a mix of wired and wireless devices throughout the retail floors. The corporate users will primarily use wireless for connectivity, but several wired clients, printers, and hard VoIP phones will be in use. The customer is also planning on renovating the corporate office space in order to take advantage of 'smart office' technology. These improvements will drive blue-dot wayfinding, presence analytics, and other location-based services.

The client would like to ensure redundant RADIUS resources in each of their three geographical regions (AMER, EMEA, and APAC). A large office location is available in each region with sufficient VMware resources available.

- Each region has between 4,435 and 5,859 clients, all of which will need to do either 802.1X wired or wireless authentications as well as 802.1X authentication for a single personal device on Wi-Fi.
- All of the non-personal devices will also need to validate health with a local agent.
- A total of 500 guests are expected to be connected on average with a maximum of 700 simultaneous connections making use of Guest Portal for access to the internet.
- TACACS authentication will also be configured for a total of 1200 evenly dispersed NADs.

How many OnGuard Licenses are required in this scenario?

- A. 30,000
- **B. 20,000**
- C. 15,000
- D. 10,000

Answer: B

NEW QUESTION # 75

