HPE6-A49$^{Q\&As}$

Aruba Certified Design Expert 8 Written Exam

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QUESTION 1

An indoor sports stadium has 5,000 seats in two rings:

The stadium has a ceiling height of 60 feet (18m).

There is a catwalk around the perimeter of the court, between the court and the seating areas. This

catwalk is 40 feet (12m) from the floor.

There are two scoreboards at either end of the stadium.

The construction of the stadium is concrete and steel.

The customer does not want an under-seat, pico cell deployment, and the customer requires 802.11ac

Wave 2.

Which AP model is appropriate to provide coverage in the main stadium bowl?

A. AP-228

B. AP-344

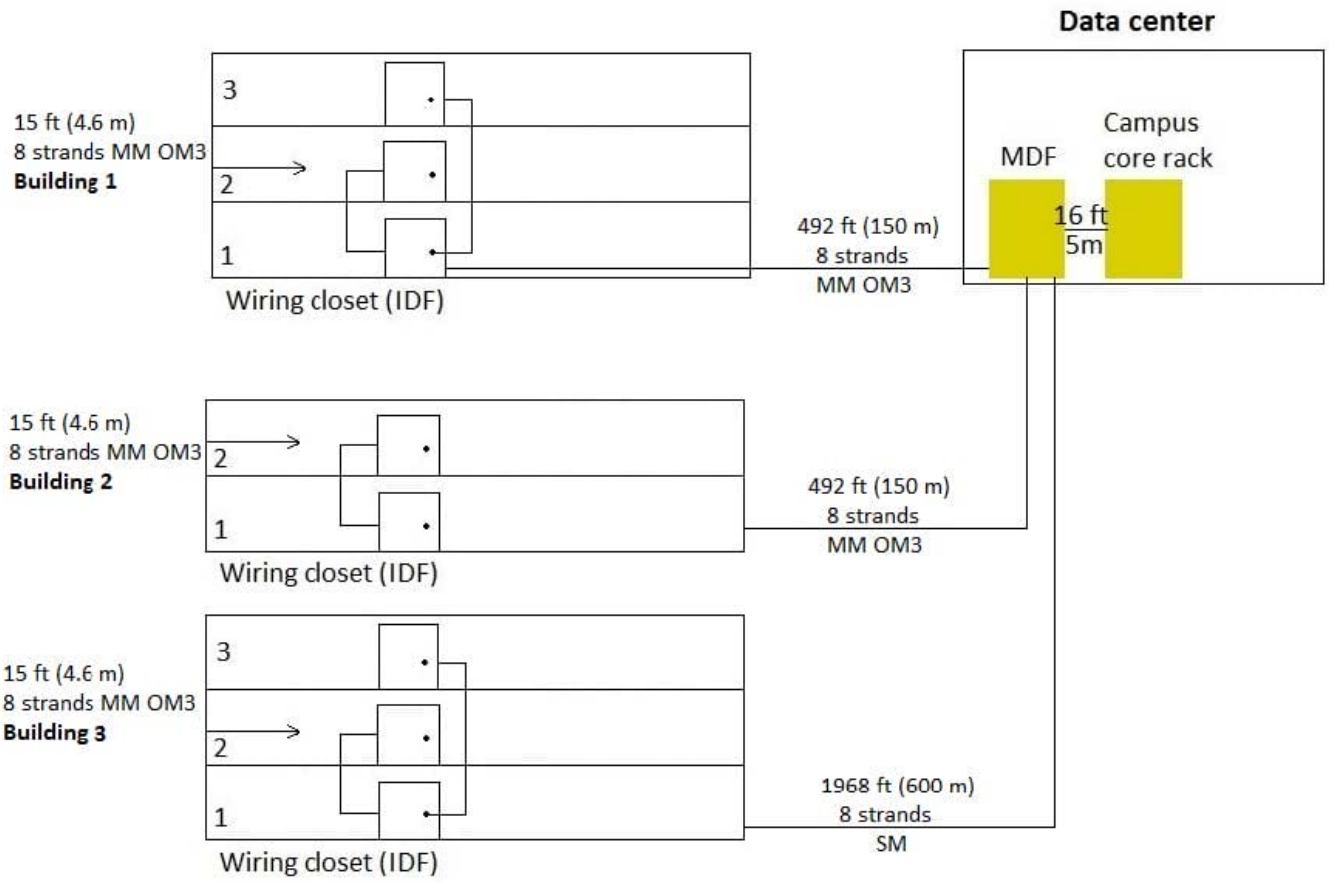
C. AP-365

D. AP-375

Correct Answer: A

QUESTION 2

Refer to the exhibit.



An architect needs to design the topology for a new wired network at a campus with three buildings. The exhibit above shows the cabling layout. The customer requires link redundancy at all layers, up to one switch-to-switch link can fail without an effect on client connectivity. The architect has determined that the closet of each floor should have three Aruba 2930M switches, and the core will use Aruba 5406 switches. The aggregation layer, if used, will use Aruba 3810M switches. However, the customer prefers the elimination of the aggregation layer and has asked the architect to advise the impact of the elimination of this layer.

Where would the elimination of the aggregation layer require rewriting?

A. All of the buildings

B. Building 1 and Building 2 only

C. Building 1 and Building 3 only

D. Building 3 only

Correct Answer: C

QUESTION 3

A customer has an existing Aruba network, which currently supports up to 9,000 wireless client devices. The existing network includes these components: Four 7210 MCs Five 7030 MCs 200 AP-303HRs 300 AP-345s

The customer wants to convert to an ArubaOS 8.x architecture. The architect plans to deploy a virtual MM.

Which exhibit shows the correct BOM for the MM?

A.

Quotation - Composite View

Quotation Browser

Views Filters

- Composite -

Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY895AAE	Aruba MM-VA-500 Mobility Master SW E-LTU	Hewlett Packard Enter…	$10,495.00	1	$10,495.00	USA Price List (USD)
1.01	HSU09E	Aruba 1Y FC 24x7 MM-VA-500 ELTU SVC [for JY895AAE]	Hewlett Packard Enter…	$1,616.00	1	$1,616.00	USA Price List (USD)
1.02	JW471AAE	Aruba-LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-…	Hewlett Packard Enter…	$300.00	300	$90,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE	Hewlett Packard Enter…	$46.00	300	$13,800.00	USA Price List (USD)
		Quote Total				**$115,911**	

B.

C.

D.

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Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-IK Mobility Master SW E-LTU	Hewlett Packard Enter…	$17,495.00	1	$17,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-500 ELTU SVC [for JY895AAE]	Hewlett Packard Enter…	$2,701.00	1	$2,701.00	USA Price List (USD)
1.02	JW471AAE	Aruba-LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-…	Hewlett Packard Enter…	$300.00	500	$150,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE	Hewlett Packard Enter…	$46.00	500	$23,000.00	USA Price List (USD)
		Quote Total				**$193,196**	

Quotation - Composite View

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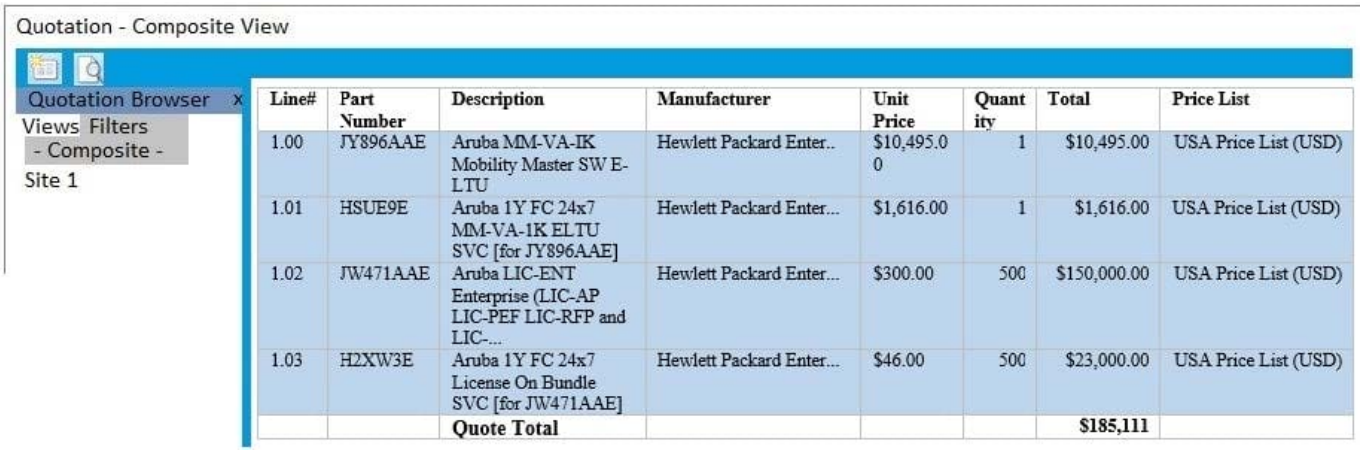
Views Filters

- Composite -

Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-IK Mobility Master SW E-LTU	Hewlett Packard Enter…	$17,495.00	1	$17,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-1K ELTU SVC [for JY896AAE]	Hewlett Packard Enter…	$2,701.00	1	$2,701.00	USA Price List (USD)
		Quote Total				**$20,196.00**	



Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-IK Mobility Master SW E-LTU	Hewlett Packard Enter..	$10,495.00	1	$10,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-1K ELTU SVC [for JY896AAE]	Hewlett Packard Enter...	$1,616.00	1	$1,616.00	USA Price List (USD)
1.02	JW471AAE	Aruba LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-...	Hewlett Packard Enter...	$300.00	500	$150,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE]	Hewlett Packard Enter...	$46.00	500	$23,000.00	USA Price List (USD)
		Quote Total				**$185,111**	

Correct Answer: C

QUESTION 4

A university has a dormitory with several floors. Currently APs are deployed in the hallways about every 50

feet (15m). The university has several issues with the existing network:

Students complain that the network is very slow, and the wireless signal is poor.

Students want to connect some equipment such as gaming consoles and IP TVs on Ethernet, but the dorm

rooms just have one Ethernet port.

How does the deployment of AP303Hs resolve the customer issues?

A. They are specialized to provide wireless coverage for single-room deployment and also provide wired ports for clients.

B. They are specialized for wireless meshing, which conserves Ethernet ports, and for high-speed wireless services.

C. They have high-gain antennas designed for older buildings and support Smart Rate for high bandwidth on one port.

D. They have directional antennas that will improve the wireless signal and require just one Ethernet port.

Correct Answer: C

QUESTION 5

A hospital needs an upgrade to 802.11ac for its wireless network. The wireless network supports: wireless medical devices medical staff voice communicators laptops in nurse stations medical staff tablets visitor and patient personal devices

All of these devices support both the 2.4GHz and 5GHz band. Assuming about a max throughput of 150 Mbps per AP, the hospital would like to support about 4 Mbps per client. The architect has used VisualRF to plan the AP placement on one of the floors, which the hospital expects will need to support about 800 wireless devices. The exhibits show heatmaps from this plan. The architect also plans to deploy APs in stairwells between floors.

How well does the plan meet the requirements?

A. The current AP placement fails to account for the lead-lined walls that are common in patient and exam rooms.

B. The current AP placement fails to provide adequate signal for the voice communicators in several areas.

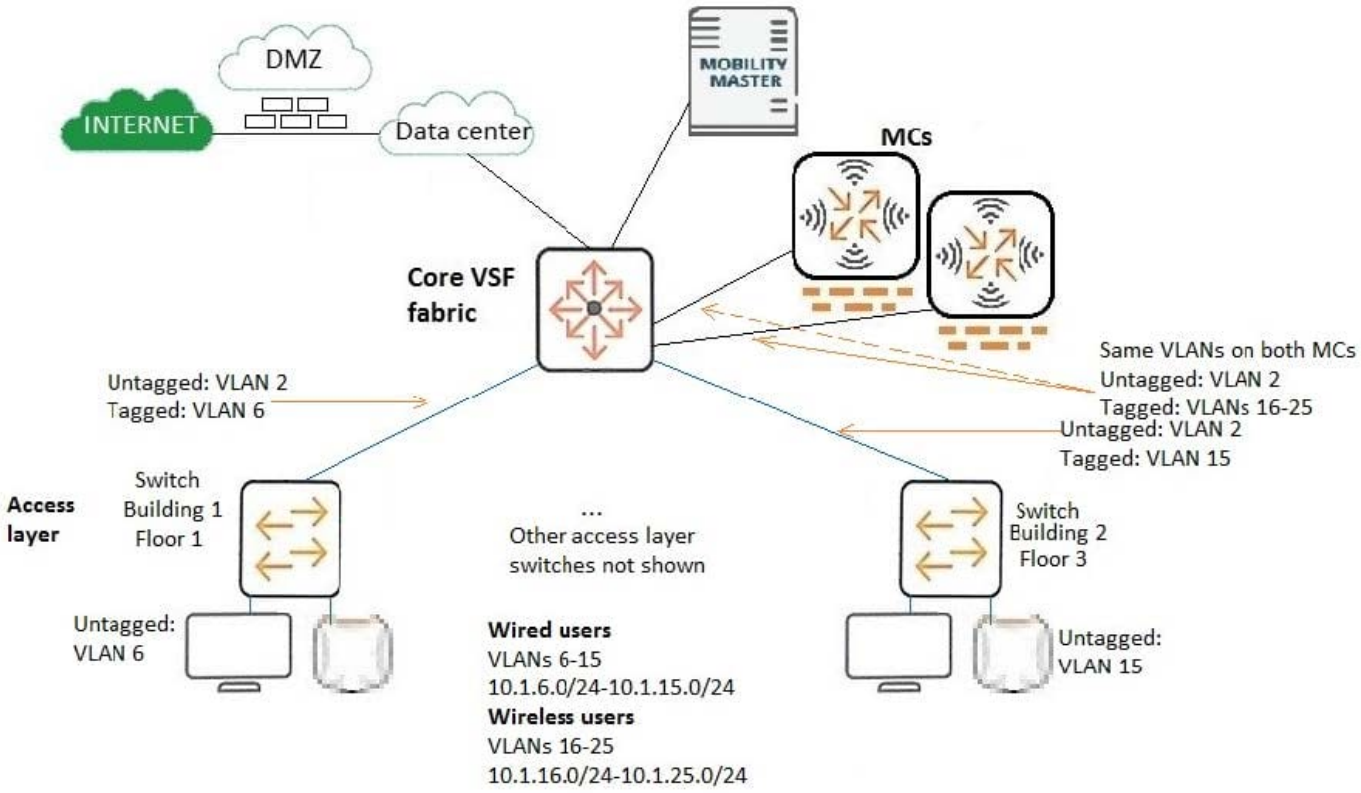
C. The current AP placement meets coverage requirements, but does not meet capacity requirements.

D. The current AP placement meets the customer requirements in terms of coverage and capacity.

Correct Answer: D

QUESTION 6

Refer to the exhibit.



A customer needs a wireless network upgrade and has these requirements: Support any applications used on a wired connection Support up to 2500 wireless clients Support seamless roaming from floor to floor and building to building Continue to function seamlessly if one AP or controller fails

The architect has designed the local infrastructure for the network as shown in the exhibit.

Which change should the architect make to better meet customer requirements and best practices?

A. Combine the /24 subnets for wireless and wired users into a /16 subnet.

B. Place each controller in a different VLAN and subnet.

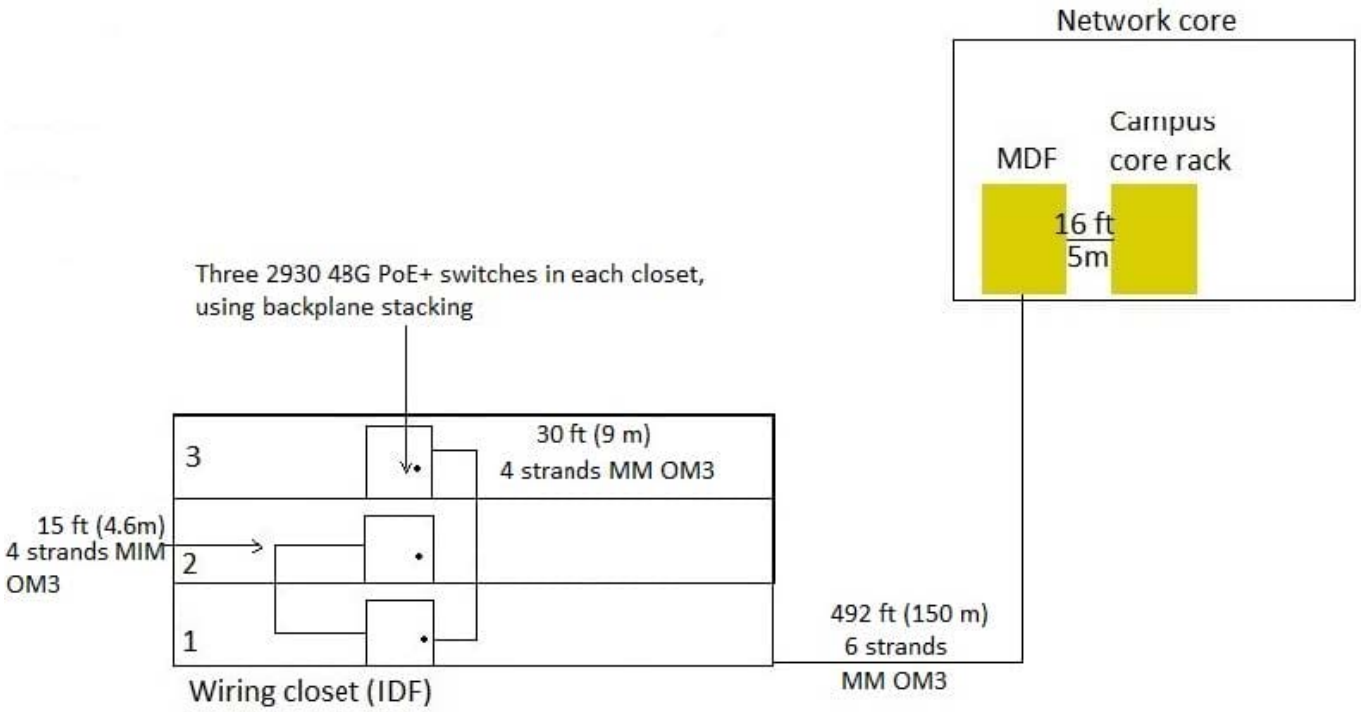
C. Change the /24 subnets for wireless users into a /25 subnet.

D. Combine the /24 subnets for wireless users into a /20 subnet.

Correct Answer: B

QUESTION 7

Refer to the exhibit.



A customer needs a wired upgrade for a building on its main campus. The exhibit shows the switches that

architect has selected for each closet and the existing cabling. The customer is not open to changing the cabling. The customer requires link redundancy for the uplinks from each closet and for the links from the building to the core. In non link failure situations, the uplinks from each closet must support at least 20 Gbps, and the building as a whole must have at least 20 Gbps to the core in non link failure situations.

Which options for connecting the closets to the network core are valid? (Select two.)

A. Connect the switch stack on each floor directly to the network core on two fiber connections per floor. Achieve this by patching the inter-floor fiber through the inter-building fiber.

B. Add two aggregation switches in the Floor 1 closet. Connect the switch stack for each closet to the aggregation switches on two fiber links each and the aggregation switches to the core on two fiber links.

C. Combine the nine switches on all three floors into a single switch stack with stacking cables in a ring topology. Connect two Floor 1 members to the network core with one fiber connection each.

D. Combine the nine switches on all three floors into a single switch stack with the MM OM3 fiber cables in a ring topology. Connect two Floor 1 members to the network core with one fiber connection each.

E. Connect the Floor 2 switch stack to Floor 1 with two fiber connections. Do the same for Floor 3. Connect the Floor 1 switch stack to the network core with two fiber connections.

Correct Answer: BC

QUESTION 8

A school district has instant APs (IAPs) at multiple locations. The school district wants a simpler way to manage the

IAPs from a single location. However, it does not have the IT staff to handle the installation

and management of a management solution on site. What should the architect recommend?

A. Purchase a subscription for Aruba Central device management.

B. Deploy Aruba AirWave in central location.

C. Purchase licenses for a Virtual Mobility Controller (VMC).

D. Deploy an Aruba MC in a central location, and convert IAPs to CAPs.

Correct Answer: A

QUESTION 9

A customer has an existing Aruba wireless solution to provide wireless access for employees. The solution includes APs, mobility controllers (MCs) at the network core, and a Mobility Master (MM). A customer would like to set up a separately managed guest network and have the traffic go directly to the DMZ.

What should the architect suggest as the simplest solution that meets the requirements?

A. Add APs in a dedicated AP group to support only the guest network SSID.

B. Have a dedicated mobility controller in the DMZ managed by the same MM.

C. Double the number of APs and controllers

D. Use MultiZone, and put a mobility controller in the DMZ.

Correct Answer: D

QUESTION 10

An architect has recommended the deployment or RAPs at user home offices to provide access to the corporate LAN.

How should the architect plan the SSID for the RAPs?

A. Same SSID and security settings as the corporate SSID

B. any name for the SSID with MAC-Authentication

C. any name for the SSID, which would be open; VIA is used for security

D. same name used for the corporate SSID, but always with WPA2-Personal security

Correct Answer: A