



642-874^{Q&As}

Designing Cisco Network Service Architectures

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**QUESTION 1**

Which two services are provided at the aggregation layer in a data center design? (Choose two.)

- A. service module integration
- B. default gateway redundancy
- C. high-speed packet switching backplane
- D. network interface card teaming
- E. Layer 3 domain definitions

Correct Answer: AB

QUESTION 2

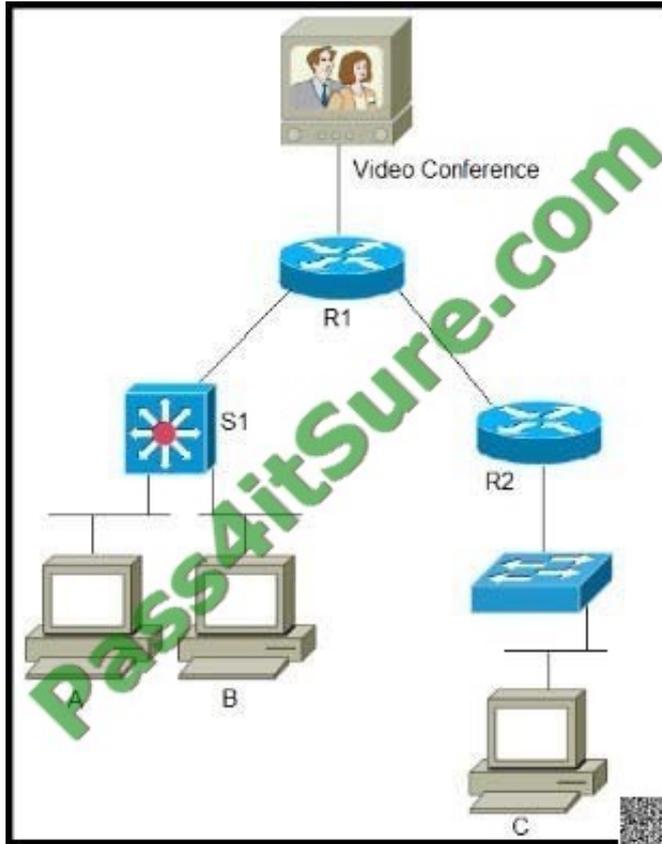
Which of the following is most accurate with respect to designing high availability within the Enterprise Campus network?

- A. High availability at and between the Distribution and Access layers is as simple as redundant switches and redundant Layer 3 connections
- B. Non-deterministic traffic patterns require a highly available modular topology design
- C. Distribution layer high availability design includes redundant switches and Layer 3 equal-cost load sharing connections to the switched Access and routed Core layers, with a Layer 3 link between the Distribution switches to support summarization of routing information from the Distribution to the Core
- D. Default gateway redundancy allows for the failure of a redundant Distribution switch without affecting endpoint connectivity

Correct Answer: D

QUESTION 3

Refer to the exhibit.



The network engineer wants to ensure that receiver A does not receive traffic from the video conference.

For multicast traffic, where must the filtering be placed to fulfill that requirement?

- A. R1
- B. Video Conference
- C. A
- D. S1
- E. R2

Correct Answer: D

QUESTION 4

Which of the following is a result when designing multiple EIGRP autonomous systems within the Enterprise Campus network?

- A. Improves scalability by dividing the network using summary routes at AS boundaries
- B. Decreases complexity since EIGRP redistribution is automatically handled in the background
- C. Reduces the volume of EIGRP queries by limiting them to one EIGRP AS



D. Scaling is improved when a unique AS is run at the Access, Distribution, and Core layers of the network

Correct Answer: A

QUESTION 5

A company's virtualization team wants to transfer control of network switching and policy management for VMware virtual servers to the networking team. What Cisco network virtualization solution should be implemented?

- A. Unified Computing System
- B. Nexus distributed virtual switch
- C. virtual network agent
- D. Nexus unified fabric switch

Correct Answer: B

QUESTION 6

What are two advantages of a L2 looped data center design model? (Choose two.)

- A. promotes Layer 2 high availability
- B. prevents VLAN propagation
- C. allows sharing of service modules
- D. eliminates the use of STP
- E. improves data transfer speeds

Correct Answer: AC

QUESTION 7

What are two characteristics of Cisco Global Site Selector? (Choose two.)

- A. It helps verify end-to-end path availability.
- B. It provides traffic rerouting in case of disaster.
- C. HSRP, GLBP, and VRRP can be clients of GSS.
- D. BGP must be the routing protocol between the distributed data centers.
- E. DNS responsiveness is improved by providing centralized domain management.

Correct Answer: BE

**QUESTION 8**

In a collapsed core design, which three benefits are provided by a second-generation Cisco MDS director? (Choose three.)

- A. a higher fan-out ratio
- B. fully redundant switches
- C. 100 percent port efficiency
- D. all ISLs contained within a single chassis
- E. higher latency and throughput than a core-edge design switch

Correct Answer: BCD

QUESTION 9

Which two design concerns must be addressed when designing a multicast implementation? (Choose two.)

- A. only the low-order 23 bits of the MAC address are used to map IP addresses
- B. only the low-order 24 bits of the MAC address are used to map IP addresses
- C. only the high-order 23 bits of the MAC address are used to map IP addresses
- D. only the low-order 23 bits of the IP address are used to map MAC addresses
- E. the 0x01004f MAC address prefix is used for mapping IP addresses to MAC addresses
- F. the 0x01005e MAC address prefix is used for mapping IP addresses to MAC addresses

Correct Answer: AF

QUESTION 10

DRAG DROP

Select and Place:



Drag the network characteristic on the left to the appropriate Access-Distribution block design on the right.

Fastest network convergence using routing	Layer 2 between Access and Distribution with Layer 2 link between the Distribution switches
Loop-free topology	Layer 2 between Access and Distribution with Layer 3 link between the Distribution switches
Uses FHRP	Layer 2 between Access and Distribution with VSS between the Distribution switches
VLANs span multiple access layer switches	Layer 3 between Access and Distribution with Layer 3 link between the Distribution switches

Correct Answer:

Drag the network characteristic on the left to the appropriate Access-Distribution block design on the right.

	VLANs span multiple access layer switches
	Uses FHRP
	Loop-free topology
	Fastest network convergence using routing

QUESTION 11

Which feature set enables the full OSPF routing process when using a Cisco Catalyst 3750X Switch?

- A. LAN base
- B. IP base
- C. IP services
- D. enterprise access

Correct Answer: C

QUESTION 12

Which part of the Layer 3 header is used to identify a flow in NetFlow but it is not used for NBAR?

- A. source port
- B. ToS
- C. protocol type
- D. source IP



Correct Answer: B

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