



642-874^{Q&As}

Designing Cisco Network Service Architectures

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QUESTION 1

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 2

Source traffic is sent to a VIP on an SLB device, which in turn is routed to the destination server. Return traffic is policy-based routed back to the SLB.

Which SLB design has been implemented?

- A. router mode
- B. inline bridge mode
- C. one-armed mode
- D. two-armed mode

Correct Answer: D

QUESTION 3

Which practice is recommended when designing scalable OSPF networks?

- A. Maximize the number of routers in an area.
- B. Minimize the number of ABRs.
- C. Minimize the number of areas supported by an ABR.
- D. Maximize the number of router adjacencies.

Correct Answer: C



QUESTION 4

To support the enterprise high-availability requirements, which workgroup switch technology can be used to interconnect multiple switches into a single logical unit?

- A. StackWise
- B. EtherChannel
- C. VSS
- D. vPC
- E. Flex Links

Correct Answer: A

QUESTION 5

Which option is a common cause of congestion found in a campus network?

- A. input serialization delay
- B. output serialization delay
- C. Rx-queue starvation
- D. Tx-queue starvation

Correct Answer: D

QUESTION 6

A well-designed IP addressing scheme supporting role-based functions within the subnet will result in the most efficient use of which technology?

- A. Layer 3 switching in the core
- B. Network Admission Control (NAC)
- C. IP telephony (voice and video) services
- D. ACLs

Correct Answer: D

QUESTION 7

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 8

Support of vPC on the Cisco Nexus 5000 access switch enables various new design options for the data center Access layer, including which of the following?

- A. The vPC peer link is not required for Access layer control traffic, and can instead be used to span VLANs across the vPC access switches
- B. A single switch can associate per-interface with more than one vPC domain
- C. vPC can be used on both sides of the MEC, allowing a unique 16-link EtherChannel to be built between the access and aggregation switches
- D. Allows an EtherChannel between a server and a access switch while still maintaining the level of availability that is associated with dual-homing a server to two different access switches

Correct Answer: C

QUESTION 9

What SAN technology can accomplish fabric infrastructure implementation using multiple fabrics?

- A. VSAN
- B. IVR
- C. SCSI
- D. NAS

Correct Answer: A

QUESTION 10

To which switch or switches should you provide redundant links in order to achieve high availability with reliable fast convergence in the enterprise campus?

- A. to a core switch running Cisco NSF and SSO from redundant distribution switches connected with a Layer 2 link
- B. to a core switch running Cisco NSF and SSO from redundant distribution switches connected with a Layer 3 link



- C. to two core switches from redundant distribution switches connected with a Layer 2 link
- D. to two core switches from redundant distribution switches connected with a Layer 3 link
- E. to two core switches running Cisco NSF and SSO from two redundant distribution switches running Cisco NSF and SSO

Correct Answer: D

QUESTION 11

DRAG DROP

Select and Place:

Drag the characteristic on the left to the corresponding RP model on the right.

Dynamic, utilizing link-local multicast messages which are flooded hop by hop	Static RP
Static, with fault tolerance utilizing with the Multicast Source Discovery Protocol	Auto-RP
Static, with no inherent failover or load balancing mechanism	Anycast RP
Dynamic, utilizing RP mapping agents with dense mode flooding	BSR

Correct Answer:

Drag the characteristic on the left to the corresponding RP model on the right.

	Static, with no inherent failover or load balancing mechanism
	Dynamic, utilizing RP mapping agents with dense mode flooding
	Static, with fault tolerance utilizing with the Multicast Source Discovery Protocol
	Dynamic, utilizing link-local multicast messages which are flooded hop by hop

QUESTION 12

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 13

Which configuration represents resiliency at the hardware and software layers?

- A. multiple connections and FHRP
- B. HSRP and GLBP
- C. redundant supervisor and power supplies
- D. dual uplinks and switches

Correct Answer: A

QUESTION 14

A company uses BGP to connect with the ISP on the enterprise network and wants to improve performance due to the increasing number of iBGP peers. Which two design solutions address the iBGP full mesh requirement? (Choose two.)

- A. route reflectors
- B. confederations
- C. AS path prepending



D. communities

E. conditional advertising

Correct Answer: AB

QUESTION 15

A company implemented VoIP in a campus network and now wants a consistent method to implement using AutoQoS. Which two parameters must be considered before AutoQoS is configured? (Choose two.)

A. CEF must be enabled.

B. AutoQoS is available only on routers.

C. Traffic discovery must be performed manually.

D. No service policy can be applied already.

E. Manual traffic analysis must be performed.

Correct Answer: AD

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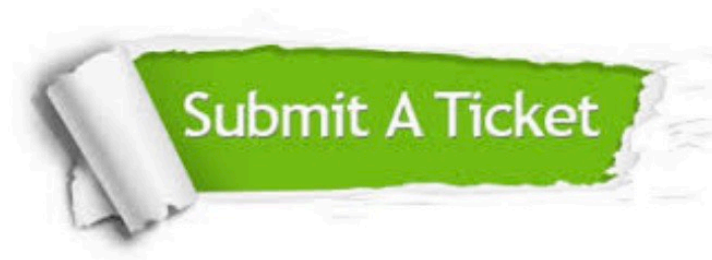
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