Vendor: Cisco

Exam Code:642-874

Exam Name: Designing Cisco Network Service Architectures

Version: Demo

QUESTION 1

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 2

The requirement for high availability within the Data Center network may cause the designer to consider which one of the following solutions?

A. Construct a hierarchical network design using EtherChannel between a server and two VDCs from the same physical switch

B. Utilize Cisco NSF with SSO to provide intrachassis SSO at Layers 2 to 4

C. Define the Data Center as an OSPF NSSA area, advertising a default route into the DC and summarizing the routes out of the NSSA to the Campus Core

D. Implement network services for the Data Center as a separate services layer using an active/active model that is more predictable in failure conditions

Correct Answer: B

QUESTION 3

Which of the following features might be used by the Enterprise Campus network designer as a means of route filtering?

A. IPv4 static routes

B. Route tagging using a route map in an ACL

C. Tagging routes using the BGP MED

D. EIGRP stub networks

Correct Answer: D

QUESTION 4

Which three virtualization categories are in campus networks? (Choose three.)

A. Layer 2 virtualization

B. Layer 3 clustering

C. network virtualization

D. device virtualization

E. network clustering

F. device clustering

Correct Answer: CDF

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

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 7

Which type of application traffic typically requires prioritization across networks and may use a DSCP value of 34 (AF41)?

A. voice

B. interactive video

C. call signaling

D. routing

E. streaming video

F. network management

Correct Answer: B

QUESTION 8

A network engineer is designing an address plan based on network applications. Which application presents the greatest need for its own address block?
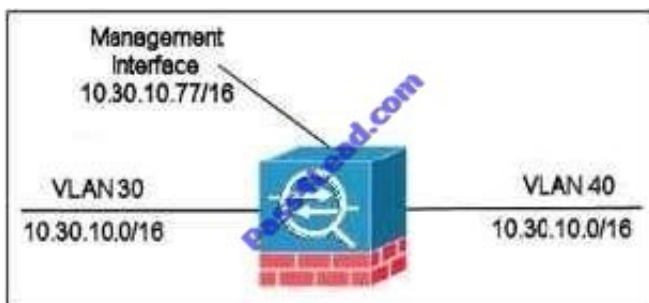
A. IP telephony

B. management

C. multicast

D. physical security

Correct Answer: A

QUESTION 9

Refer to the exhibit.

Which statement about the ASA is true?

A. The management interface is reachable only from VLAN 30.

B. The management interface is reachable only from VLAN 40.

C. It is running in transparent mode.

D. It is running in routed mode.

Correct Answer: C

QUESTION 10

Which two options are VRF components. (Choose two.)

A. RIB

B. VSS

C. FIB

D. HSRP

Correct Answer: AC

QUESTION 11

What Nexus technology avoids blocking links between the access layer and the aggregation layer in a data center network design?

A. FCoE

B. LACP

C. vPC

D. FEX

Correct Answer: C

QUESTION 12

What are two benefits of migrating from a vPC design to FabricPath? (Choose two.)

A. infrastructure scalability

B. lower latency

C. ease of configuration

D. network stability

E. easy to manage

Correct Answer: AD

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