



642-873^{Q&As}

Designing Cisco network Service Architectures (ARCH)

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**QUESTION 1**

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 2

A network manager wants to securely connect a new remote site to the existing headquarters site using a VPN technology that meets security requirements. Which VPN technology should be used?

- A. GRE
- B. IPsec
- C. remote-access VPN
- D. L2TP VPN

Correct Answer: B

QUESTION 3

Which option lists the EIGRP minimum timer settings for hello and dead timers in seconds?

- A. 4 and 6
- B. 2 and 4
- C. 2 and 6
- D. both 6

Correct Answer: C

QUESTION 4



Which multicast address must be available for FHRP advertisements in a multivendor environment?

- A. 224.0.0.9
- B. 224.0.0.18
- C. 224.0.0.102
- D. 224.0.0.2

Correct Answer: B

QUESTION 5

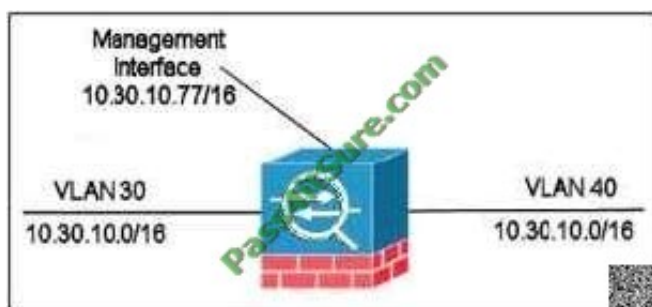
Which algorithm does IS-IS use to determine the shortest path through a network?

- A. Bellman-Ford routing algorithm
- B. Johnson's algorithm
- C. Dijkstra's algorithm
- D. Floyd-Warshall algorithm

Correct Answer: C

QUESTION 6

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 7**

Which protocol will not adhere to the design requirement of the control plane being either separated or combined within a virtualization technology?

- A. FHRP
- B. STP
- C. CEF
- D. NSF with SSO

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

Which statement is the most accurate regarding IPsec VPN design for an Enterprise Campus environment?

- A. VPN device IP addressing must align with the existing Campus addressing scheme.
- B. The choice of a hub-and-spoke or meshed topology ultimately depends on the number of remotes.
- C. Sizing and selection of the IPsec VPN headend devices is most affected by the throughput bandwidth requirements for the remote offices and home worker
- D. Scaling considerations such as headend configuration, routing protocol choice, and topology have the broadest impact on the design.

Correct Answer: D

QUESTION 10

Which option describes the purpose of the auto-cost reference bandwidth 10000 command under the OSPF process?



- A. Recognize redundant 10 Megabit links.
- B. Differentiate cost on a 10 Gigabit Ethernet trunk link.
- C. Change the default bandwidth for a 100 Megabit link.
- D. Adjust the link bandwidth for routing protocols.

Correct Answer: B

QUESTION 11

When designing the routing for an Enterprise Campus network it is important to keep which of the following route filtering aspects in mind?

- A. Filtering is only useful when combined with route summarization
- B. It is best to filter (allow) the default and summary prefixes only in the Enterprise Edge to remote sites or site-to-site IPsec VPN networks
- C. IGP (for example EIGRP or OSPF) are superior to route filtering in avoiding inappropriate transit traffic through remote nodes or inaccurate or inappropriate routing updates
- D. The primary limitation of router filtering is that it can only be applied on outbound updates

Correct Answer: B

QUESTION 12

Which Nexus feature enables you to support server connectivity with one topology and address requirement for both high availability and high bandwidth?

- A. vPC
- B. vPC+
- C. Stackwise
- D. EvPC

Correct Answer: D

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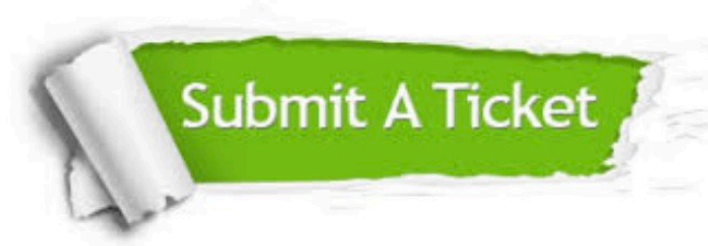
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