



# 642-874<sup>Q&As</sup>

Designing Cisco Network Service Architectures

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### QUESTION 1

Which of the following facts must be considered when designing for IP telephony within an Enterprise Campus network?

- A. Because the IP phone is a three-port switch, IP telephony extends the network edge, impacting the Distribution layer.
- B. Video and voice are alike in being bursty and bandwidth intensive, and thus impose requirements to be lossless, and have minimized delay and jitter.
- C. IP phones have no voice and data VLAN separation, so security policies must be based on upper layer traffic characteristics.
- D. Though multi-VLAN access ports are set to dot1q and carry more than two VLANs they are not trunk ports.

Correct Answer: D

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### QUESTION 2

Which two options are two benefits of a Layer 2 looped model? (Choose two.)

- A. extends VLANs between switches that are connected to a common aggregation module
- B. prevents uplink ports from entering the spanning-tree blocking state
- C. provides quick convergence with Rapid Spanning Tree Protocol
- D. increases performance to end hosts using directly connected, bonded Layer 2 links

Correct Answer: AC

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### QUESTION 3

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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**QUESTION 4**

Which of these Layer 2 access designs does not support VLAN extensions?

- A. FlexLinks
- B. loop-free U
- C. looped square
- D. looped triangle
- E. loop-free inverted U

Correct Answer: B

**QUESTION 5**

DRAG DROP

Select and Place:

Drag the OSPF technology on the left to the appropriate network convergence step on the right that this technology helps to mitigate.

CEF	Detect the event
SPF throttling or pacing Timers	Propagate the event
Bidirectional Forwarding Detection	Process the event
LSA Propagation/throttling/pacing Timers	Update forwarding data structures

Correct Answer:

Drag the OSPF technology on the left to the appropriate network convergence step on the right that this technology helps to mitigate.

	Bidirectional Forwarding Detection
	LSA Propagation/throttling/pacing Timers
	SPF throttling or pacing Timers
	CEF

**QUESTION 6**

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

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#### QUESTION 7

Which four options are network virtualization technologies that are employed in the data center? (Choose four.)

- A. VLAN
- B. VSAN
- C. VRF
- D. VRP
- E. VLC
- F. VPC

Correct Answer: ABCF

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#### QUESTION 8

Which statement about data center access layer design modes is correct?

- A. The access layer is the first oversubscription point in a data center design.
- B. The data center access layer provides the physical-level connections to the server resources and only operates at Layer 3.
- C. When using a Layer 2 looped design, VLANs are not extended into the aggregation layer.
- D. When using a Layer 3 design, stateful services requiring Layer 2 connectivity are provisioned from the aggregation layer.

Correct Answer: A

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#### QUESTION 9

ACME corporation owns a single MDS.

Which two SAN tools can be used to optimize the use and cost of the switching hardware? (Choose two.)

- A. zoning



- B. IVR
- C. VSAN
- D. iSCSI

Correct Answer: AC

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#### QUESTION 10

With respect to address summarization, which of the following statements concerning IPv4 and IPv6 is true?

- A. The potential size of the IPv6 address blocks suggests that address summarization favors IPv6 over IPv4.
- B. Role based addressing using wildcard masks to match multiple subnets is suitable for IPv4, but unsuitable for IPv6.
- C. In order to summarize, the number of subnets in the IPv4 address block should be a power of 2 while the number of subnets in the IPv6 address block should be a power of 64.
- D. WAN link addressing best supports summarization with a /126 subnet for IPv4 and a /31 for IPv6.

Correct Answer: B

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#### QUESTION 11

Which option is the Cisco recommendation for data oversubscription for access ports on the access-to- distribution uplink?

- A. 4 to 1
- B. 20 to 1
- C. 16 to 1
- D. 10 to 1

Correct Answer: B

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#### QUESTION 12

When designing remote access to the Enterprise Campus network for teleworkers and mobile workers, which of the following should the designer consider?

- A. It is recommended to place the VPN termination device in line with the Enterprise Edge firewall, with ingress traffic limited to SSL only
- B. Maintaining access rules, based on the source IP of the client, on an internal firewall drawn from a headend RADIUS server is the most secure deployment
- C. VPN Headend routing using Reverse Route Injection (RRI) with distribution is recommended when the remote user community is small and dedicated DHCP scopes are in place



D. Clientless SSL VPNs provide more granular access control than SSL VPN clients (thin or thick), including at Layer7

Correct Answer: D

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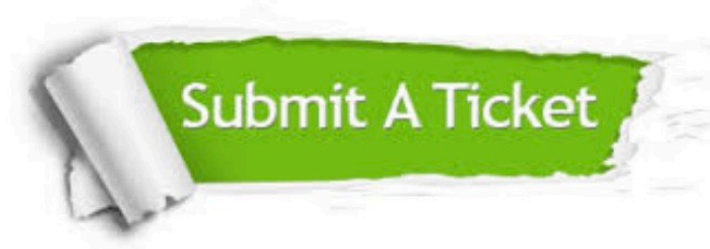
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