



300-320^{Q&As}

Designing Cisco Network Service Architectures

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**QUESTION 1**

Which two protocols support simple plaintext and MD5 authentication? (Choose two)

- A. RIP
- B. IPv6
- C. EIGRP
- D. BGP
- E. OSPF

Correct Answer: CE

Simple password authentication (also called plain text authentication) - supported by Integrated-System to Integrated-System (IS-IS), Open Shortest Path First (OSPF) and Routing Information Protocol Version 2 (RIPv2)

MD5 authentication - supported by OSPF, RIPv2, BGP, and EIGRP

QUESTION 2

An engineer is designing a campus network and must implement subsecond failover as it relates to OSPF and EIGRP designs. Which action accomplishes this requirement?

- A. Design a triangle topology and tune the timers on the routing protocol.
- B. Design a square topology and use port-channeling on each path.
- C. Design a square topology and tune the timers on the routing protocol.
- D. Design a triangle topology and use Bidirectional Forwarding Detection.

Correct Answer: D

QUESTION 3

Which action should be taken when implementing a preferred IPS design?

- A. Place the management interface on a separate VLAN
- B. Place all sensors on PVLAN community ports
- C. Place the management interface on the same VLAN
- D. Place the monitoring interface on the inside network

Correct Answer: A

**QUESTION 4**

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

QUESTION 5

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

QUESTION 6

A company requires real-time SAN replication between two remote locations. What is the standard path selection protocol for fabric routing?

- A. FSPF
- B. FICON
- C. FCOE
- D. SCSI

Correct Answer: A

QUESTION 7

Which protocol is used in an in-band network and why?



- A. UDP, because it is connectionless
- B. SSH, because the username and password are encrypted
- C. Telnet, because the username and password are sent in clear
- D. MSDP, because it uses TCP as its transport protocol

Correct Answer: B

QUESTION 8

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

QUESTION 9

What needs to be configured to control unwanted transit traffic to not be routed to remote branches that have multiple WAN connections?

- A. route weighting
- B. route tagging
- C. route filtering
- D. route prioritising

Correct Answer: C

QUESTION 10

What are two characteristics of Server Load Balancing router mode? (Choose two.)

- A. The design supports multiple server subnets.
- B. An end-user sees the IP address of the real server.
- C. SLB routes between the outside and inside subnets.
- D. The source or destination MAC address is rewritten, but the IP addresses left alone.



E. SLB acts as a "bump in the wire" between servers and upstream firewall or Layer 3 devices.

Correct Answer: AC

QUESTION 11

Which two benefits are achieved if a network is designed properly with a structured addressing scheme? (Choose two.)

- A. efficient ACLs
- B. improved redundancy
- C. hardened security
- D. easier troubleshooting
- E. added resiliency

Correct Answer: AD

QUESTION 12

Multipath to two datacenter by L2 networks overlap addresses and must be work (2 answers)

- A. vxlan
- B. OTV
- C. VRF
- D. vpn
- E. HSRP

Correct Answer: AB

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