



Cisco

Exam Questions 300-420

Designing Cisco Enterprise Networks (ENSLD)

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NEW QUESTION 1

An engineer is working for a large cable TV provider that requires multiple sources streaming video on different channels using multicast with no rendezvous point. Which multicast protocol meets these requirements?

- A. PIM-SM
- B. PIM-SSM
- C. any-source multicast
- D. BIDIR-PIM

Answer: D

NEW QUESTION 2

Which control-plane technology allows the same subnet to exist across multiple network locations?

- A. LISP
- B. VXLAN
- C. FabricPath
- D. ISE mobility services

Answer: B

NEW QUESTION 3

What are two valid scaling techniques when an EIGRP network is designed that consists of more than 1000 routers? (Choose two.)

- A. Use structured hierarchical topology with route summarization
- B. Used sub-second timers
- C. Use the distribute-list command to filter routes
- D. Modify delay parameters on the links
- E. Implement multiple EIGRP autonomous systems

Answer: AE

NEW QUESTION 4

An engineer is working with NETCONF and Cisco NX-OS based devices. The engineer needs a YANG model that supports a specific feature relevant only to Cisco NX-OS. Which model must the engineer choose?

- A. Native
- B. IEEE
- C. OpenConfig
- D. IETF

Answer: D

NEW QUESTION 5

An enterprise customer has these requirements:

- end-to-end QoS for the business-critical applications and VoIP services based on CoS marking.
- flexibility to offer services such as IPv6 and multicast without any reliance on the service provider.
- support for full-mesh connectivity at Layer 2.

Which WAN connectivity option meets these requirements?

- A. VPWS
- B. MPLS VPN
- C. DMVPN
- D. VPLS

Answer: D

NEW QUESTION 6

Which QoS feature responds to network congestion by dropping lower priority packets?

- A. CBWFQ
- B. tail drop
- C. WRED
- D. strict priority

Answer: C

NEW QUESTION 7

An engineer must design a multicast network for a financial application. Most of the multicast sources also receive multicast traffic (many-to-many deployment model). To better scale routing tables, the design must not use source trees. Which multicast protocol satisfies these requirements?

- A. PIM-SSM
- B. PIM-SM
- C. MSDP

D. BIDIR-PIM

Answer: B

NEW QUESTION 8

A branch office has a primary L3VPN MPLS connection back to the main office and an IPSEC VPN tunnel that serves as backup. Which design ensures that data is sent over the backup connection only if the primary MPLS circuit is down?

- A. Use EIGRP to establish a neighbor relationship with the main office via L3VPN MPLS and the IPSECVPN tunnel.
- B. Use BGP with the multipath feature enabled to force traffic via the primary path when available.
- C. Use static routes tied to an IP SLA to prefer the primary path while a floating static route points to the backup connection.
- D. Use OSPF with a passive-interface command on the backup connection.

Answer: C

NEW QUESTION 9

Which two best practices must be followed when designing an out-of-band management network? (Choose two.)

- A. Enforce access control
- B. Facilitate network integration
- C. Back up data using the management network
- D. Ensure that the management network is a backup to the data network
- E. Ensure network isolation

Answer: AE

NEW QUESTION 10

A network engineer must connect two sites across a public network using a secure tunneling technology that supports multicast traffic. Which technology must be chosen?

- A. IPsec
- B. GRE
- C. PPTP
- D. GRE over IPsec

Answer: D

NEW QUESTION 10

When designing interdomain multicast, which two protocols are deployed to achieve communication between multicast sources and receivers? (Choose two.)

- A. IGMPv2
- B. BIDIR-PIM
- C. MP-BGP
- D. MSDP
- E. MLD

Answer: CD

NEW QUESTION 11

Which feature must be incorporated into the campus LAN design to enable Wake on LAN?

- A. dynamic ARP Inspection Snooping on layer 2 devices
- B. directed broadcasts on layer 3 devices
- C. proxy ARP on layer 3 devices
- D. DHCP Snooping on layer 2 devices

Answer: B

NEW QUESTION 16

In an SD-WAN architecture, which methods are used to bootstrap a vEdge router?

- A. DHCP options or manual configuration
- B. vManage or DNS records
- C. ZTP or manual configuration
- D. DNS records or DHCP options

Answer: C

NEW QUESTION 18

An engineer must design a VPN solution for a company that has multiple branches connecting to a main office. What are two advantages of using DMVPN instead of IPsec tunnels to accomplish this task? (Choose two.)

- A. support for AES 256-bit encryption
- B. greater scalability
- C. support for anycast gateway

- D. lower traffic overhead
- E. dynamic spoke-to-spoke tunnels

Answer: BE

NEW QUESTION 23

Which function are fabric intermediate nodes responsible for in an SD-Access Architecture?

- A. mapping EIDs to RLOCs
- B. encapsulating user traffic in a VXLAN header including the SGT
- C. registering new endpoints in the HTDB
- D. transporting IP packets between edge nodes and border nodes

Answer: D

NEW QUESTION 26

Which feature is required for graceful restart to recover from a processor failure?

- A. Cisco Express Forwarding
- B. Virtual Switch System
- C. Stateful Switchover
- D. Bidirectional Forwarding Detection

Answer: A

NEW QUESTION 28

What is the purpose of an edge node in an SD-Access network fabric?

- A. Edge nodes identify and authenticate endpoints and register endpoint information with control plane nodes.
- B. Edge nodes track endpoint IDs to location mappings, along with IPv4, IPv6, or MAC addresses.
- C. Edge nodes are the gateway between the fabric domain and network outside of the fabric.
- D. Edge nodes resolve lookup requests from edge and border nodes to locate destination endpoint IDs.

Answer: A

NEW QUESTION 33

A company with multiple service providers wants to speed up BGP convergence time in the event a failure occurs with their primary link. Which approach achieves this goal and does not impact router CPU utilization?

- A. Utilize BFD and tune the multiplier to 50
- B. Lower the BGP hello interval
- C. Decrease the BGP keepalive timer
- D. Utilize BFD and keep the default BGP timers

Answer: C

NEW QUESTION 37

An infrastructure team is concerned about the shared memory utilization of a device, and for this reason, they need to monitor the device state. Which solution limits impact on the device and provides the required data?

- A. IPFIX
- B. static telemetry
- C. on-change subscription
- D. periodic subscription

Answer: A

NEW QUESTION 38

A customer with an IPv4 only network topology wants to enable IPv6 connectivity while preserving the IPv4 topology services. The customer plans to migrate IPv4 services to the IPv6 topology, then decommission the IPv4 topology. Which topology supports these requirements?

- A. dual stack
- B. 6VPE
- C. 6to4
- D. NAT64

Answer: A

NEW QUESTION 41

Which routes does the overlay management protocol advertise in an SD-WAN overlay?

- A. underlay, MPLS, and overlay
- B. primary, backup, and load-balanced
- C. prefix, TLOC, and service
- D. Internet, MPLS, and backup

Answer: C

NEW QUESTION 42

How do endpoints inside an SD-Access network reach resources outside the fabric?

- A. a VRF fusion router is used to map resources in one VN to another VN
- B. Fabric borders use VRFs to map VNs to VRFs
- C. SD-Access transit links are used to transport encapsulated traffic from one fabric to another
- D. A fabric edge is used to de-encapsulate VXLAN traffic to normal IP traffic then transported over the outside network

Answer: D

NEW QUESTION 44

An engineer is working with NETCONF and Cisco NX-OS based devices. The engineer needs a YANG model that supports a specific feature relevant only to Cisco NX-OS. Which model must the engineer choose?

- A. Native
- B. IEEE
- C. OpenConfig
- D. IETF

Answer: D

NEW QUESTION 47

Which consideration must be taken into account when using the DHCP relay feature in a Cisco SD-Access Architecture?

- A. DHCP-relay must be enabled on fabric edge nodes to provide the correct mapping of DHCP scope to the local anycast gateway.
- B. A DHCP server must be enabled on the border nodes to allow subnets to span multiple fabric edges.
- C. DHCP servers must support Cisco SD-Access extensions to correctly assign IPs to endpoints in an SDAccess fabric with anycast gateway.
- D. DHCP Option-82 must be enabled to map the circuit IP option to the access fabric node where the DHCP discover originated.

Answer: A

NEW QUESTION 52

Drag and drop the characteristics from the left onto the correct telemetry mode on the right.

The collector initiates a session to the device	Dial-In
supports TCP, UDP, and gRPC	
The device initiates a session to the collector	Dial-Out
supports gRPC only	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

In a dial-in mode, the destination initiates a session to the router and subscribes to data to be streamed. Dialin mode is supported over gRPC in only 64-bit platforms

In a dial-out mode, the router initiates a session to the destinations based on the subscription. All 64-bit IOS XR platforms (except for NCS 6000 series routers) support gRPC and TCP protocols. All 32-bit IOS XR platforms support only TCP.

NEW QUESTION 54

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