



Cisco

Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies

NEW QUESTION 1

Refer to the exhibit. P3 and PE4 are at the edge of the service provider core and serve as ABR routers. Aggregation areas are on either side of the core. Which statement about the architecture is true?

- A. To support seamless MPLS, the BGP route reflector feature must be disabled.
- B. If each area is running its own IGP, BGP must provide an end-to-end MPLS LSP.
- C. If each area is running its own IGP, the ABR routers must redistribute the IGP routing table into BGP.
- D. To support seamless MPLS, TDP must be used as the label protocol.

Answer: B

NEW QUESTION 2

Why do Cisco MPLS TE tunnels require a link-state routing protocol?

- A. The link-state database provides segmentation by area, which improves the path-selection process.
- B. The link-state database provides a data repository from which the tunnel endpoints can dynamically select a source ID.
- C. Link-state routing protocols use SPF calculations that the tunnel endpoints leverage to implement the tunnel.
- D. The tunnel endpoints use the link-state database to evaluate the entire topology and determine the best path.

Answer: D

NEW QUESTION 3

After you analyze your network environment, you decide to implement a full separation model for Internet access and MPLS L3VPN services. For which reason do you make this decision?

- A. It enables EGP and IGP to operate independently.
- B. It enables you to choose whether to separate or centralize each individual service.
- C. It is easier to manage a system in which services are mixed.
- D. It requires only one edge router.

Answer: A

NEW QUESTION 4

Refer to the exhibit. An engineer is preparing to implement data plane security configuration. Which statement about this configuration is true?

- A. Router 2 is the router receiving the DDoS attack.
- B. Router 1 must be configured with uRPF for the RTBH implementation to be effective.
- C. Router 1 is the trigger router in a RTBH implementation.
- D. Router 2 must configure a route to null 0 for network 192.168.1.0/24 for the RTBH implementation to be complete.

Answer: A

NEW QUESTION 5

Refer to the exhibit. Which three outcomes occur if the prefix list is added to the neighbor? (Choose three.)

- A. 192.168.0.0/16 is denied.
- B. 192.168.0.0/16 is permitted.
- C. 192.168.0.0/19 is permitted
- D. 192.168.0.0/19 is denied.
- E. 192.168.0.0/17 is permitted
- F. 192.168.0.0/17 is denied.

Answer: ACF

NEW QUESTION 6

A network engineer must enable the helper router to terminate the OSPF graceful restart process if it detects any changes in the LSA. Which command enables this feature?

- A. nsf ietf helper disable
- B. nsf cisco helper disable
- C. nsf ietf helper strict-lsa-checking
- D. nsf cisco enforce global

Answer: A

NEW QUESTION 7

Refer to the exhibit. Which statement about the neighbor statements for 192.168.1.1 is true?

- A. The router sends BGP labels for its prefixes to this peer.
- B. The router must have TDP configured for the send-label command to operate.
- C. The neighbor router receives at least four labels from this router.
- D. The router sends only a label for the prefix for Loopback0.

Answer: A

NEW QUESTION 8

Refer to the exhibit. Which statement about the status of the neighbor relationship between R1 and R2 is true?

- A. The neighbor relationship is down because the two routers are configured with different area types.
- B. The neighbor relationship is down because the two routers are in the same subnet.
- C. The neighbor relationship is up because R2 is level 1 and level 2 router.
- D. The neighbor relationship is down because R2 is operating as a Level 1 router and the two routers are in different areas.

Answer: A

NEW QUESTION 9

Refer to the exhibit. R1 and R2 are directly connected with Fast Ethernet interfaces and have the above configuration applied OSPF adjacency is not formed. When the debug ip ospf hello command is issued on R1, these log messages are seen:

Which command can be configured on routers R1 and R2 on f0/0 interfaces to form OSPF adjacency?

- A. ip ospf network point-to-multipoint non-broadcast
- B. ip ospf network non-broadcast
- C. ip ospf network broadcast
- D. ip ospf network point-to-point

Answer: D

NEW QUESTION 10

Which two tasks must you perform when you implement LDP NSF on your network? (Choose two.)

- A. Enable NSF for BGP.
- B. Implement direct connections for LDP peers.
- C. Enable NSF for EIGRP.
- D. Disable Cisco Express Forwarding.
- E. Enable NSF for the link-state routing protocol that is in use on the network.

Answer: BE

NEW QUESTION 10

Refer to the exhibit. On R1, which output does the show isis neighbors command generate?

Answer: A

NEW QUESTION 12

How much must the MTU be increased when configuring the 802.1q VLAN tag?

- A. 2 bytes
- B. 4 bytes
- C. 8 bytes
- D. 12 bytes

Answer: B

NEW QUESTION 14

Refer to the exhibit. An engineer is preparing to implement link aggregation configuration. Which statement about this configuration is true?

- A. The switch port negotiates an EtherChannel if it receives LACP packets from a connected peer running passive mode.
- B. The switch port actively sends packets to negotiate an EtherChannel using PAgP.
- C. The switch port passively negotiates an EtherChannel if it receives PAgP packets from a connected peer.
- D. The switch port accepts LACP and PAgP packets from a connected peer and negotiate an EtherChannel using the common EtherChannel mode.

Answer: B

NEW QUESTION 17

How can shared services in an MPLS Layer 3 VPN provide Internet access to the Customers of a central service provider?

- A. Static routes on CE routers allow route leakage from a PE global routing table.
- B. The CE router can establish a BGP peering to a PE router and use the PE device to reach the Internet.
- C. The customer VRF uses route targets to import and export routes to and from a shared services VRF.
- D. Route distinguishers are used to identify the routes that CEs can use to reach the Internet.

Answer: C

NEW QUESTION 18

Refer to the exhibit Which effect of this configuration is true?

- A. R1 can support a peer that is configured for LDP SSO/NSF as the peer recovers from an outage.
- B. R1 can support a graceful restart operation on the peer, even if graceful restart is disabled on the peer.
- C. R1 can failover to any peer.
- D. R1 can failover only to a peer that is configured for LDF SSO/NSF.

Answer: A

NEW QUESTION 22

When configuring traffic engineering tunnels in Cisco MPLS core network, you see the traffic is not taking the expected path in the core. Which command do you use to quickly check path of a TE tunnel?

- A. traceroute <tunnel destination IP>
- B. show mpls traffic-engineering tunnels
- C. Ping <tunnel destination IP>
- D. traceroute mpls ipv4 <tunnel destination>

Answer: D

NEW QUESTION 27

A router RP is configured to perform MPLS LDP graceful restart.

Which three steps are included when the RP sends an LDP initialization message to a neighbor to establish an LDP session? (Choose three.)

- A. Learn from Neighbor (N) flag, set to 1
- B. Recovery Time field
- C. Type-9 LSA
- D. Reconnect Timeout field
- E. Graceful restart capability in OPEN message
- F. Learn from Network (L) flag, set to 1

Answer: BDF

NEW QUESTION 30

Refer to the exhibit. A network engineer is implementing a BGP routing policy. Which effect of this configuration is true?

- A. All traffic that matches acl10 is allowed without any change to its local-preference.

- B. All traffic that matches acl10 is dropped without any change to its local-preference.
- C. If traffic matches acl10, it is allowed and its local-preference is set to 300.
- D. All traffic is assigned a local-preference of 300 regardless of its destination.

Answer: A

NEW QUESTION 31

Refer to the exhibit. A network engineer is implementing QoS services. Which two statements about the qos-group keyword on Cisco IOS XR are true? (Choose two.)

- A. It marks packets for end-to-end QoS policy enforcement across the network.
- B. QoS group marking occurs on the ingress.
- C. The QoS group numbering corresponds to priority level.
- D. QoS group can be used in fabric QoS policy as match criteria.
- E. It cannot be used with priority traffic class.

Answer: BD

NEW QUESTION 33

Refer to the exhibit. Which statement supports QPPB implementation?

- A. QPPB policies affect only egress traffic.
- B. QoS policies rely exclusively on BGP attributes to manipulate traffic.
- C. QoS policies are identified in the MPLS forwarding table.
- D. QoS policies use BGP to gain full coverage on the network.

Answer: D

NEW QUESTION 37

Refer to the exhibit. This configuration is being applied on an IOS XR router. Which statement about this configuration is true?

- A. It is used to enable gRPC.
- B. It is used to create a streaming subscription with a 600-second interval.
- C. It is used to set up configuration to poll network data.
- D. It is used to create a streaming subscription with a 60-Second interval.

Answer: D

NEW QUESTION 40

Refer to the exhibit. What is the URL used for with REST API?

- A. It is used to initiate an FTP session to save a running configuration of a device.
- B. It is used to send a message to the APIC to perform an operation on a managed object or class operator.
- C. It is used to contact a URL filter to determine the efficacy of a web address.
- D. It is used to send a TACACS + authentication request to a server.

Answer: B

NEW QUESTION 43

Which two uses of the YANG data modeling language are true? (Choose two.)

- A. It can be used to model the configuration used by NETCONF operations.
- B. It can be used to access a device by HTTP.
- C. It can be used to replace the OSI model for troubleshooting.
- D. It can be used to shape state data of network elements.
- E. It can be used to replace RESTCONF as a mechanism to install and manipulate configuration.

Answer: AC

NEW QUESTION 46

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