

# 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

Which configuration mode do you use to apply the `mpls ldp graceful-restart` command in IOS XE Software?

- A. MPLS LDP neighbor
- B. interface
- C. MPLS
- D. global

**Answer: D**

## NEW QUESTION 3

While implementing TTL security, you issue the `PE(config-router-af)#neighbor 2.2.2.2 ttl-security hops 2` command. After you issue this command, which BGP packets does the PE accept?

- A. to 2.2.2.2, with a TTL of 2 or more
- B. from 2.2.2.2, with a TTL of less than 2
- C. to 2.2.2.2, with a TTL of less than 253
- D. from 2.2.2.2, with a TTL of 253 or more

**Answer: D**

## NEW QUESTION 4

A customer of an ISP requests support to setup a BGP routing policy. Which BGP attribute should be configured to choose specific BGP speakers as preferred points for the customer AS?

- A. lowest multi-exit discriminator
- B. highest local preference outbound
- C. lowest local preference inbound
- D. highest local preference inbound

**Answer: B**

## NEW QUESTION 5

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

A.

B.

C.

D.

**Answer:** A

#### NEW QUESTION 6

Refer to the exhibit. Assume all other configurations are correct and the network is otherwise operating normally. Which conclusion can you draw about the neighbor relationship between routers R1 and R2?

- A. The neighbor relationship is up.
- B. The neighbor relationship will be up only if the two devices have activated the correct neighbor relationships under the IPv4 address family.
- C. The neighbor is down because the local-as value for R2 is missing in the R1 neighbor statement.
- D. The neighbor relationship is down because R1 believes R2 is in AS 65012.

**Answer:** D

#### NEW QUESTION 7

Refer to the exhibit. Which two statements about the IS-IS topology are true? (Choose two.)

- A. R1 and R4 are Level 2 neighbors.
- B. All four routers are operating as Level 1-2 routers.
- C. All four routers are operating as Level 2 routers only.
- D. All four routers are operating as Level 1 routers only.
- E. R1 and R2 are Level 2 neighbors.

**Answer:** AB

#### NEW QUESTION 8

Which BGP attribute is used first when determining the best path?

- A. origin
- B. AS path
- C. local preference
- D. weight

**Answer:** D

#### NEW QUESTION 9

Refer to the exhibit. An engineer wants to authenticate the OSPF neighbor between PE-A and PE-B using MD5. Which command on PE-B successfully completes the configuration?

- A. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config-if)#ip ospf authentication null
- B. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config-if)#ip ospf authentication key-chain 44578611
- C. PE-B(config-if)#ip ospf message-digest-key 1 md5 44568611 PE-B(config-if)#ip ospf authentication null
- D. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config-if)#ip ospf authentication message-digest

**Answer: D**

#### NEW QUESTION 10

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 10

You are writing an RPL script to accept routes only from certain autonomous systems. Consider this code:

```
RP/0/RP0/CPU0:router(config-rpl)# if as-path in (ios-regex '.*77$') RP/0/RP0/CPU0:router(config-rpl-if)# pass RP/0/RP0/CPU0:router(config-rpl-if)# endif
```

If you apply this code to BGP filters, which effect does the code have on your router?

- A. denies routes from AS 7070
- B. allows routes from AS 7077
- C. denies routes from AS 7007
- D. allows routes from AS 770

**Answer: B**

#### NEW QUESTION 14

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 19

In an MPLS network, which protocol can be used to distribute a Segment Prefix?

- A. LDP
- B. EIGRP
- C. OSPF
- D. RSVP-TE

**Answer:** C

#### NEW QUESTION 20

Refer to the exhibit. With which router does IOSXRV-1 have LDP session protection capability enabled but session hold up is not active?

- A. 192.168.0.4
- B. 192.168.0.5
- C. 192.168.0.1
- D. 192.168.0.3

**Answer:** B

#### NEW QUESTION 22

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 23

Why do packet loops occur during the configuration of BIDIR-PIM?

- A. The network does not support BIDIR-PIM.
- B. The network is partially upgraded to support BIDIR-PIM.
- C. The router has not been configured to advertise itself.
- D. No interface for carrying traffic for multicast groups has been configured.

**Answer:** B

#### NEW QUESTION 25

Refer to the exhibit. Which command is used to complete this configuration for QoS class-based marking?

- A. PE-A(config-pmap-c)#set dscp ef
- B. PE-A(config-pmap-c)#priority
- C. PE-A(config-pmap-c)#random-detect
- D. PE-A(config-pmap-c)#fair-queue

**Answer:** A

#### NEW QUESTION 29

How can a network administrator secure rest APIs?

- A. They can have a general administrator login for multiple users to access that has command entries logged.
- B. They can authenticate user sessions and provide the appropriate privilege level.
- C. They can ensure that user sessions are authenticated using TACACS+ only.
- D. They can allow read and write privileges to all users.

**Answer:** B

**NEW QUESTION 30**

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 31**

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