

# 350-501<sup>Q&As</sup>

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)

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### QUESTION 1

Refer to the exhibit.

```
! configure terminalip cef distributed
```

```
interface gigabitethernet 1/0ip verify unicast reverse-path 12
```

```
!
```

Which show command should be implemented to display per-interface statistics about uRPF drops and suppressed drops?

- A. show ip traffic
- B. show ip interface
- C. show cef interface
- D. show ip interface brief

Correct Answer: B

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### QUESTION 2

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

Correct Answer: A

Reference: [https://www.cisco.com/c/en/us/td/docs/ios/12\\_4t/ip\\_route/configuration/guide/tgrhelp.html](https://www.cisco.com/c/en/us/td/docs/ios/12_4t/ip_route/configuration/guide/tgrhelp.html)

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### QUESTION 3

Which statement about the Cisco MPLS TE forwarding adjacency feature is true?

- A. It enables the MPLS core to use EIGRP as the routing protocol.
- B. It enables the Cisco MPLS TE tunnel to be advertised into the running IGP.
- C. It enables the tailend router to advertise routes to the headend router over the tunnel.

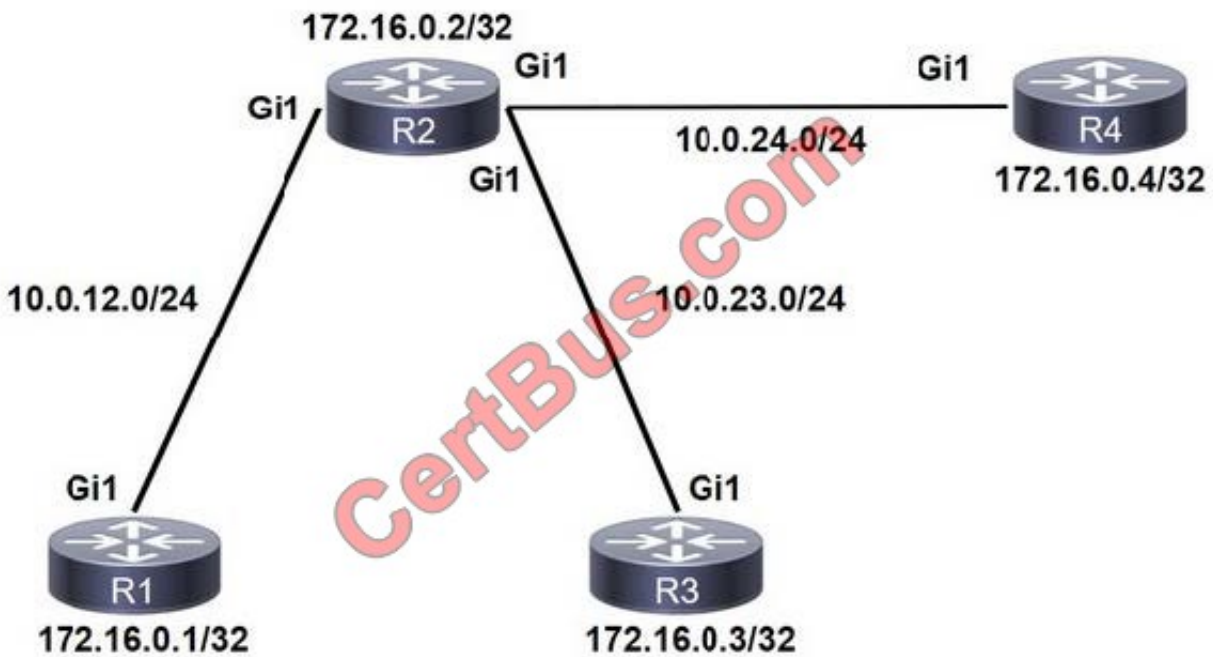
D. It enables the headend and tailend routers to establish a bidirectional tunnel.

Correct Answer: B

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp\\_te\\_path\\_setup/configuration/xe-16/mp-te-path-setup-xe-16-book/mpls-traffic-engineering-forwarding-adjacency.pdf](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_te_path_setup/configuration/xe-16/mp-te-path-setup-xe-16-book/mpls-traffic-engineering-forwarding-adjacency.pdf)

**QUESTION 4**

Refer to the exhibit.



Which configuration must be applied to each of the four routers on the network to reduce LDP LIB size and advertise label bindings for the /32 loopback IP space only?

- A. `config t ip prefix-list LOOPBACKS seq 5 permit 0.0.0.0/0 le 32 mpls ldp label allocate global prefix-list LOOPBACKS end`
- B. `config t access-list 10 permit 172.16.0.0 0.0.0.7 access-list 20 permit 10.0.0.0 0.0.31.255 no mpls ldp advertise-labels mpls ldp advertise-labels for 10 to 20 end`
- C. `config t access-list 10 permit 172.16.0.0 0.0.0.7 access-list 20 permit 172.16.0.0 0.0.0.7 no mpls ldp advertise-labels mpls ldp advertise-labels for 10 to 20 end`
- D. `config t mpls ldp label allocate global host-routes end`

Correct Answer: A

**QUESTION 5**

Which statement about Network Services Orchestrator (NSO) is true?

- A. It must use SDN as an overlay for addressing.
- B. It uses YANG modeling language to automate devices.
- C. It is used only in service provider environments.
- D. It can be used only with XML coding.

Correct Answer: B

## QUESTION 6

Refer to the exhibit.

```
R1#show ip ospf int
Loopback2 is up, line protocol is up
  Internet Address 200.0.0.1/24, Area 0, Attached via Interface Enable
  Process ID 1, Router ID 100.0.0.1, Network Type LOOPBACK, Cost: 1
Loopback interface is treated as a stub Host
Loopback0 is up, line protocol is up
  Internet Address 100.0.0.1/24, Area 0, Attached via Interface Enable
  Process ID 1, Router ID 100.0.0.1, Network Type LOOPBACK, Cost: 1
Loopback interface is treated as a stub Host
Serial1/0 is up, line protocol is up
  Interface is unnumbered. Using address of Loopback0 (100.0.0.1), Area 0, Attached via Interface Enable
  Process ID 1, Router ID 100.0.0.1, Network Type POINT_TO_POINT, Cost: 64

R2#show ip ospf database
      OSPF Router with ID (100.0.0.2) (Process ID 1)
      Router Link States (Area 0)

Link ID      ADV Router   Age         Seq#         Checksum     Link count
100.0.0.1    100.0.0.1    22         0x80000005  0x0090D8    3

R2#show ip route
100.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       100.0.0.0/24 is directly connected, Serial1/0
L       100.0.0.2/32 is directly connected, Serial1/0
```

While troubleshooting a connectivity issue on router R2, a network engineer with an employee id:3876.13.497 notices that although it detects three OSPF links from R1, the OSPF prefixes are missing from the routing table. What is the reason for the problem?

- A. The serial interfaces have different MTUs
- B. Both loopback interfaces on R1 are configured as stub
- C. The R2 Serial 1/0 interface is configured with an IP address, but the R1 Serial R1 Serial 1/0 interface in unnumbered.
- D. The subnet masks on the serial interfaces are mismatched.

Correct Answer: C

#### QUESTION 7

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.

Correct Answer: BE

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#### QUESTION 8

Which feature will an operator use while implementing MPLS TE on customer's network, to prevent an LSP from using any overseas links?

- A. bandwidth
- B. affinity
- C. explicit path
- D. SLRG

Correct Answer: C

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#### QUESTION 9

You are configuring MPLS traffic-engineering tunnels in the core. Which two ways exist for the tunnel path across the core? (Choose two )

- A. Tunnel links inherit IGP metrics by default unless overridden
- B. Tunnels can be configured with dynamic path or explicitly defined path
- C. A zero bandwidth tunnel is not a valid option
- D. The bandwidth statement creates a "hard" reservation on the link-The dynamic path option is supported only with IS-IS

Correct Answer: AB

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**QUESTION 10**

```
ip flow-export source loopback 0
ip-flow-export destination 192.168.1.1
ip-flow-export version 9 origin-as
```

Refer to the exhibit. Export statistics received do not include the BGP next hop. Which statement about the NetFlow export statistics is true?

- A. Loopback 0 must be participating in BGP for it to be included in the export statistics.
- B. To include the BGP next hop in the export statistics, those keywords must be included with the version 9 entry.
- C. The origin AS and the peer-as will be included in the export statistics.
- D. Only the origin AS of the source router will be included in the export statistics.

Correct Answer: B

Reference: <https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/netflow/configuration/xr-16-12/nf-xr-16-12-book/cfg-nflow-data-expt-xr.html>

**QUESTION 11**

```
R1
router bgp 65000
router-id 192.168.1.1
neighbor 192.168.1.2 remote-as 65012
neighbor 192.168.1.2 local-as 65112
```

Refer to the exhibit. A network engineer is implementing a BGP protocol. Which effect of the local-as keyword in this configuration is true?

- A. It enables peer 192.168.1.2 to establish a BGP relationship with R1 using AS 65012 without additional configuration.
- B. It enables peer 192.168.1.2 to establish a BGP relationship with R1 using AS 65112 and the VPNv4 address family.
- C. It enables peer 192.168.1.2 to establish a BGP relationship with R1 using AS 65012 and the VPNv4 address family.
- D. It enables peer 192.168.1.2 to establish a BGP relationship with R1 using AS 65112 without additional configuration.

Correct Answer: D

**QUESTION 12**

BGP has been implemented on a IOS XR router.

Which configuration sends BGP IPv4 labels to build inter-domain LSPs?

- A. router bgp 65515 address-family ipv4 unicast neighbor 172.16.70.23 send-community extended
- B. router bgp 65515 no bgp default ipv4-unicast
- C. router bgp 65515 address-family ipv4 unicast neighbor 172.16.70.23 send-community
- D. router bgp 65515 neighbor 172.16.70.23 address-family ipv4 labeled-unicast

Correct Answer: D

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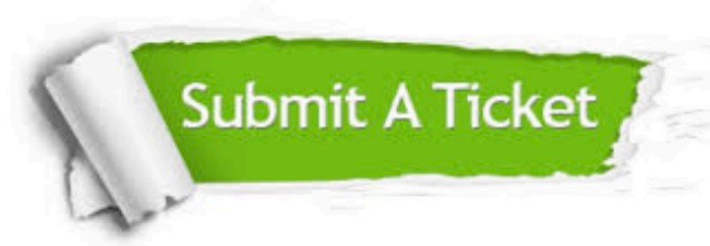
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