



350-501^{Q&As}

Implementing and Operating Cisco Service Provider Network Core Technologies

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**QUESTION 1**

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

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_ha/configuration/xs-3s/mp-ha-xe-3s-book/mp-ldp-grace-rstrt.html

QUESTION 2

A service provider is using multicast flows to provide streaming video content to its customers. Video streams are sometimes interrupted, and network instability is determined to be the cause. Which action should the service provider take to decrease the burden on the router resources in an unstable unicast routing environment?

- A. increase the PIM hello hold timers
- B. reduce the volume of query messages
- C. filter unnecessary SA messages
- D. tune the RPF backoff

Correct Answer: D

QUESTION 3

What is the maximum capacity of a single Cisco CRS-1?

- A. 64 Tb/s
- B. 78 Tb/s
- C. 92 Tb/s
- D. 106 Tb/s
- E. 128 Tb/s

Correct Answer: C

**QUESTION 4**

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

- A. The dynamic path option is supported only with IS-IS.
- 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.
- E. Tunnel links inherit IGP metrics by default unless overridden.

Correct Answer: BE

QUESTION 5

```
RP/0/0/CPU0:router# show bgp neighbors 192.168.2.2

BGP neighbor is 192.168.2.2, remote AS 1, local AS 140, external link
Remote router ID 0.0.0.0
  BGP state = Idle
  Last read 00:00:00, hold time is 180, keepalive interval is 60 seconds
  Received 0 messages, 0 notifications, 0 in queue
  Sent 0 messages, 0 notifications, 0 in queue
  Minimum time between advertisement runs is 15 seconds

For Address Family: IPv4 Unicast
  BGP neighbor version 0
  Update group: 0.1
  eBGP neighbor with inbound or outbound policy; defaults to 'drop'
  Route refresh request: received 0, sent 0
  0 accepted prefixes
  Prefix advertised 0, suppressed 0, withdrawn 0, maximum limit 524288
  Threshold for warning message 75%

Connections established 0; dropped 0
Last reset 00:02:03, due to BGP neighbor initialized
External BGP neighbor not directly connected.
```

Refer to the exhibit. Based on the show command output, which result is true after BGP session is established?

- A. The IOS XR router advertises and accepts all routes to and from eBGP neighbor 192.168.2.2.
- B. The IOS XR router advertises all routes to the neighbor 192.168.2.2, but it does not accept any routes from 192.168.2.2.
- C. No routes are accepted from the neighbor 192.168.2.2, nor are any routes advertised to it.



D. The IOS XR router does not advertise any routes to the neighbor 192.168.2.2, but it accepts any routes from 192.168.2.2.

Correct Answer: C

QUESTION 6

A regional MPLS VPN provider operates in two regions and wants to provide MPLS L3VPN service for a customer with two sites in these separate locations. The VPN provider approaches another organization to provide backbone carrier services so that the provider can connect to these two locations.

Which statement about this scenario is true?

- A. When edge routers at different regional sites are connected over the global carrier backbone, MP-eBGP must run between the routers to exchange the customer VPNv4 routes.
- B. When eBGP is used for label exchange using the send-label option, MPLS-BGP forwarding is configured under the global ABC CSC PE-to-CE interface.
- C. When BGP is used for both route and label exchange, the neighbor a.b.c.d send-label command is used under the address-family VPNv4 command mode.
- D. When IGP is used for route exchange and LDP for label exchange, MPLS is enabled only on the VRF interface on the backbone-carrier PE side.

Correct Answer: B

QUESTION 7

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

QUESTION 8

DRAG DROP

Drag and drop the OSs from the left onto the correct descriptions on the right.

Select and Place:



Answer Area

IOS XR

It is a monolithic architecture that runs all modules on one memory space.

IOS

It runs over a Linux platform and pulls the system functions out of the main kernel and into separate processes.

IOS XE

It segments ancillary processes into separate memory spaces to prevent system crashes from errant bugs.

Correct Answer:

Answer Area

IOS

IOS XE

IOS XR

QUESTION 9

Egress PE NAT is being used via a single centralized router to provide Internet access to L3VPN customers. Which description of the NAT operation is true?

- A. The NAT table contains a field to identify the inside VRF of a translation.
- B. Multiple address pools are needed for the same L3VPN because each site has a separate NAT.
- C. The different L3VPNs using the Internet access must not have IP overlaps internally.
- D. Users in different VRFs cannot share the same outside global IP address.

Correct Answer: A



Reference: <https://www.cisco.com/c/en/us/support/docs/ip/network-address-translation-nat/112084-ios-nat-mpls-vpn-00.html>

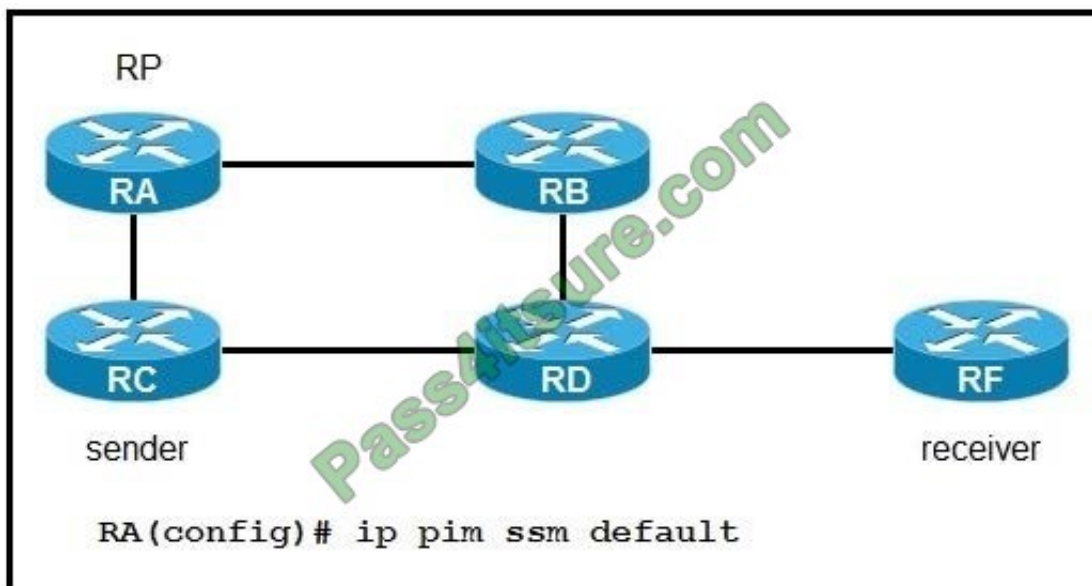
QUESTION 10

Which statement about LDP Session Protection and LDP-IGP sync is true?

- A. Both LDP features cannot be used at the same time in a MPLS LDP enabled network
- B. LDP Session Protection re-exchanges label information when a down-up event occurs; LDP-IGP sync keeps the adjacency and label information in a down-up event
- C. LDP-IGP sync re-exchanges label information when a down-up event occurs; LDP Session Protection keeps the adjacency and label information in a down-up event
- D. Both LDP features must be used together to increase fast convergence on an MPLS LDP-enabled network

Correct Answer: D

QUESTION 11



Refer to the exhibit. If router RA is configured as shown, which IPv4 multicast address space does it use?

- A. 224.0.0.0/8
- B. 225.0.0.0/8
- C. 232.0.0.0/8
- D. 239.0.0.0/8

Correct Answer: C



Reference: https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3850/software/release/3se/multicast/configuration_guide/b_mc_3se_3850_cg/b_mc_3se_3850_cg_chapter_01011.html

QUESTION 12

Refer to the exhibit. This output is included at the end of an output that was provided by a device using NETCONF. What does the code show?

- A. It shows that the full configuration is being modeled by YANG.
- B. It shows NETCONF uses remote procedure calls.
- C. It shows the hostname of the device as rpc-reply.
- D. It shows that the running configuration is blank.

Correct Answer: B

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