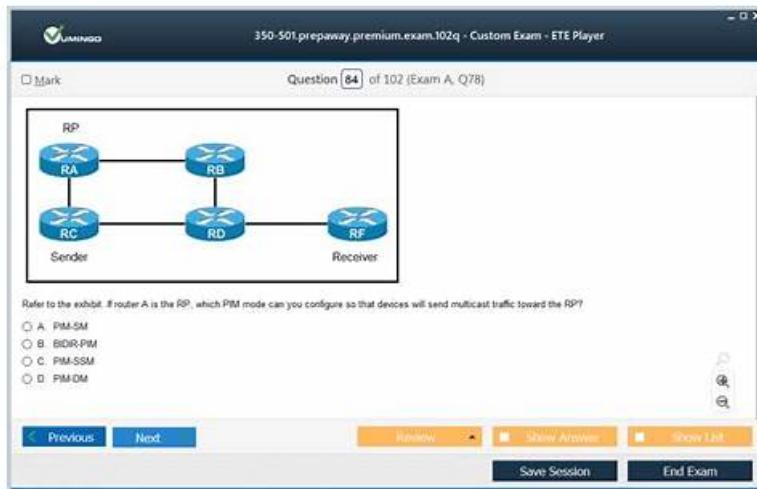


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## Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q136-Q141):

### NEW QUESTION # 136

Refer to the exhibit. The USER that is connecting an application on an Internet connection in AS 100 is facing these issues:

- The USER lost the connection to the application during a failure between IG and R2.
- Router R2 configuration is lost due to a power outage.
- The application the USER is connecting to is hosted behind CE2.

What action resolves the issues on R3 and R4 routers?

- A. Apply high Local Preference on R3 toward R1
- B. Set R4 as a route reflector for R3 and CE2
- C. Set R3 as a route reflector for R4 and CE1
- D. **Apply low Local Preference on R4 toward R2.**

**Answer: D**

#### NEW QUESTION # 137

Refer to the exhibit:

If router A is the RP, which PIM mode can you configure so that devices will send multicast traffic toward the RP?

- A. PIM-SSM
- B. PI MM-DM
- C. **BIDIR-PIM**
- D. PIM-SM

**Answer: C**

#### NEW QUESTION # 138

Refer to the exhibit:

Which purpose of implementing NSF with this configuration is true?

- A. The router uses NSF to load balance traffic on a routed EtherChannel
- B. **The router uses NSF to reduce neighbor-relationship downtime during RP switchover**
- C. The router uses NSF to load balance traffic between two links, with the primary link alternating every 90 seconds
- D. The router uses NSF to handle RP switchover while allowing neighbor relationships to remain up

**Answer: B**

Explanation:

The configuration in the exhibit shows the implementation of Nonstop Forwarding (NSF) with OSPF. NSF is used to minimize the downtime of neighbor relationships during a Route Processor (RP) switchover. The nsf command enables NSF, and ietf specifies the use of the IETF standard for graceful restart in OSPF. The restart interval 90 sets the time, in seconds, within which the restarting router should complete its restart, helping to maintain uninterrupted forwarding despite the switchover.

#### NEW QUESTION # 139

The network-engineering team of a service provider is integrating several recently acquired networks into a more scalable common Unified MPLS architecture. The new network architecture will support end-to-end VPNv4 and VPNv6 services with these requirements:

- \* The IGP of the core layer is IS-IS In Area 0.
- \* The IGP of the aggregation layers is OSPF in Area 0.
- \* The LDP protocol is used to distribute label bindings within each IGP domain.

Which task must the network engineer perform when implementing this new architecture?

- A. Configure BGP-LU between ABR routers of each IGP domain to carry MPLS label information in NLRI.
- B. **Configure the ABR in each IGP domain to preserve next-hop information on all VPNv4 and VPNv6 prefixes advertised by the PE.**
- C. Configure mutual redistribution of each IGP domain's loopback prefix to provide end-to-end LDP LSP
- D. Configure a BGP session between the ABR routers of each IGP domain to exchange VPNv4 or VPNv6 prefixes

**Answer: B**

Explanation:

\* In this scenario, the network engineer is integrating several recently acquired networks into a more scalable common Unified MPLS architecture. The architecture will support end-to-end VPNv4 and VPNv6 services. The requirements include using IS-IS in Area 0 for the core layer and OSPF in Area 0 for the aggregation layers. LDP is used to distribute label bindings within each IGP domain.

\* To achieve this, the engineer must configure the ABR (Area Border Router) in each IGP domain to preserve next-hop information on all VPNv4 and VPNv6 prefixes advertised by the PE (Provider Edge) routers. This ensures that the correct next-hop information is maintained throughout the network, allowing end-to-end connectivity for MPLS LSPs (Label Switched Paths).  
Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR) v1.0 course material

### NEW QUESTION # 140

You are creating new Cisco MPLS TE tunnels. Which type of RSVP message does the headend router send to reserve bandwidth on the path to the tunnel's router?

- A. reservation
- B. error
- C. tear
- D. path

**Answer: D**

Explanation:

When creating new Cisco MPLS TE tunnels, the headend router sends a Path message to reserve bandwidth on the path to the tunnel's tailend router. The Path message is part of the RSVP (Resource Reservation Protocol) used in signaling and establishing MPLS TE tunnels. It carries information about the requested resources and desired parameters for the tunnel. Reference: Configuring MPLS TE RSVP, MPLS TE RSVP-TE, MPLS TE Theory.

### NEW QUESTION # 141

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