



642-889^{Q&As}

Implementing Cisco Service Provider Next-Generation Edge Network Services

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QUESTION 1

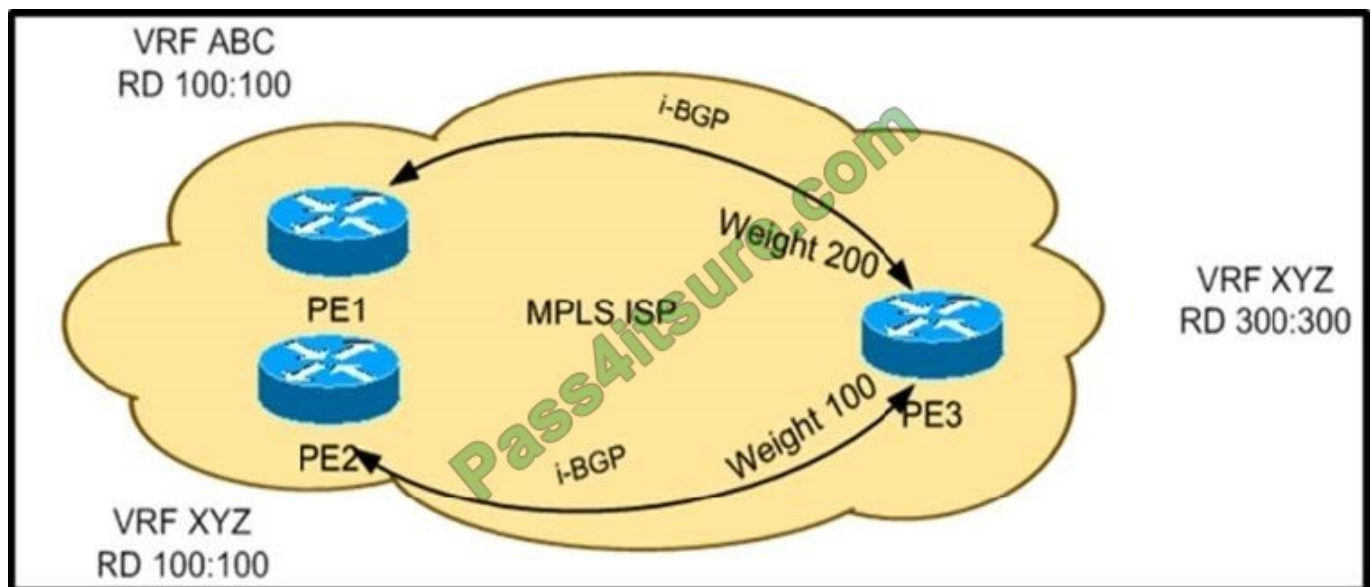
In a network where Provider Backbone Bridge (PBB) is implemented, what is the function of MIRP-Lite when a topology change occurs?

- A. Maps S-Tags to I-SIDs
- B. Enables fast failover between the BEB and a dual-homed downstream device
- C. Signals I-SID to B-MAC mappings to remote BEBs
- D. Initiates a flush of remote MAC tables

Correct Answer: D

QUESTION 2

Refer to the exhibit.



PE1 and PE2 are advertising the same subnet 10.10.10.0/24 and export route-target to PE3. Which PE advertised subnet is installed at the PE3 BGP table?

- A. PE1 subnet only, due to higher BGP assigned weight.
- B. PE2 subnet only because it is a member in the same VRF.
- C. PE1 and PE2 subnets
- D. PE1 and PE2 subnets as 300:300:10.10.10.0/24

Correct Answer: C



QUESTION 3

Match the LAN type on the left to the correct MEF service type on the right.

Select and Place:

Match the LAN type on the left to the correct MEF service type on the right.

point-to-point	E-Tree
multipoint-to-multipoint	E-Line
rooted multipoint	E-LAN

Correct Answer:

Match the LAN type on the left to the correct MEF service type on the right.

	rooted multipoint
	point-to-point
	multipoint-to-multipoint

QUESTION 4

Refer to the configuration below. Which statement about the advertisement of a VPNv4 prefix that is present in the VRF A RIB is true?

```
vrf definition A
 rd 100:1
  route-target export 65000:100
  route-target import 65000:100
  route-target import 65000:200
  !
  address-family ipv4
  route-target export 65000:300
  route target import 65000:300
  exit-address-family
  !
  address-family ipv6
  route-target export 65000:500
  route-target import 65000:500
  route-target import 65000:600
  !
  exit-address-family
```



- A. The prefix is advertised with route target 65000:500
- B. The prefix is advertised with route targets 65000:100 and 65000:300
- C. The prefix is advertised with route target 65000:100
- D. The prefix is advertised with route target 65000:300

Correct Answer: D

QUESTION 5

When implementing VPLS on Cisco IOS XR routers, the VPLS PW neighbors can be statically defined under which configuration mode?

- A. bridge group
- B. bridge-domain
- C. vfi
- D. mpls ldp
- E. l2transport

Correct Answer: C

Restrictions for Implementing Virtual Private LAN Services on Cisco IOS XR Software

The following restrictions are listed for implementing VPLS:

- All attachment circuits in a bridge domain on an Engine 3 line card must be the same type (for example, port, dot1q, qinq, or qinany), value (VLAN ID), and EtherType (for example, 0x8100, 0x9100, or 0x9200). The Cisco CRS-1 router supports multiple types of attachment circuits in a bridge domain.
- The Engine 3 line cards, cannot simultaneously have attachment circuits and MPLS-enabled on any one of its interfaces. The line card cannot be Edge-facing and Core-facing at the same time. Line cards on the Cisco CRS-1 router can be Edge-facing and Core-facing at the same time.
- The line card requires ternary content addressable memory (TCAM) Carving configuration. The Cisco CRS-1 router however, does not require the TCAM Carving configuration.
- Virtual Forwarding Instance (VFI) names have to be unique, because a bridge domain can have only one VFI.
- On the Cisco CRS-1 router, a VPLS pseudowire (PW) can be configured only under VFI.
- The Cisco CRS-1 router does not support VPLS with TE core tunnels.
- A PW cannot belong to both a peer-to-peer (P2P) cross-connect group and a VPLS bridge-domain. This means that the neighboring IP address and the pseudowire ID have to be unique on the router, because the pseudowire ID is signaled to the remote provider edge.
- You cannot manually set up a PW on one PE and use auto-discovery on the other PE to configure the same PW in the other direction. The auto-discovery feature is supported only on the Cisco XR 12000 Series Router.



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