# 642-889<sup>Q&As</sup>

Implementing Cisco Service Provider Next-Generation Edge Network Services

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**QUESTION 1**

Which MP-BGP address family must be configured to use VPLS autodiscovery in a Cisco IOS XR router?

A. address-family l2vpn vpls-vpws

B. address-family vpnv4 unicast

C. address-family ipv4 mdt
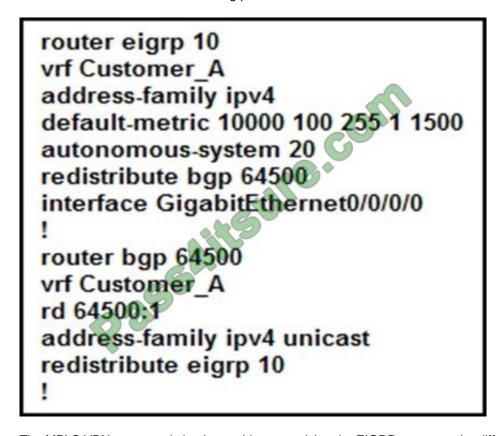
D. address-family ipv4 tunnel

E. address-family vpls vfi

Correct Answer: A

Reference: http://www.cisco.com/en/US/docs/ios/12_2sr/12_2srb/feature/guide/srbgpl2v.html

**QUESTION 2**

Refer to the partial Cisco IOS XR PE router configuration exhibit for supporting a Layer 3 MPLS VPN customer using EIGRP AS 20 as the CE-to-PE routing protocol.

```
router eigrp 10
 vrf Customer_A
  address-family ipv4
   default-metric 10000 100 255 1 1500
   autonomous-system 20
   redistribute bgp 64500
   interface GigabitEthernet0/0/0/0
!
router bgp 64500
 vrf Customer_A
  rd 64500:1
  address-family ipv4 unicast
   redistribute eigrp 10
!
```

The MPLS VPN customer is having problems receiving the EIGRP routes on the different customer site CE routers. What is wrong with this configuration that is causing the problem?

A. The router eigrp command is referencing the wrong AS number.

B. The redistribute eigrp command is missing the metric transparent option.

C. The redistribute eigrp command is referencing the wrong AS number.

D. The redistribute bgp command is missing the subnets option.

E. The redistribute eigrp command is missing the subnets option.

Correct Answer: C

**QUESTION 3**

Refer to the Cisco IOS XR router output exhibit.

```
RP/0/RP1/CPU0:R1#show route vrf red ipv6

Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP

       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

       i - ISIS, L1 - IS-IS level-1, L2 - IS-IS level-2

       ia - IS-IS inter area, su - IS-IS summary null, * - candidate default

       U - per-user static route, o - ODR, L - local

Gateway of last resort is not set

B   2001:db80:beef:1::/64

    [200/0] via ::ffff:192.168.253.6 (nexthop in vrf default),07:04:14
```

Which method is being used to transport IPv6 traffic over the service provider network?

A. 6PE

B. 6VPE

C. native IPv6

D. native IPv4

E. dual stack

Correct Answer: B

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**QUESTION 4**

What is required on a Cisco IOS XR router to assign an interface to a VRF?

A. Assign the VRF to the interface, and then re-enable Cisco Express Forwarding on the interface.

B. Assign the VRF to the interface, and then reset the CE-to-PE routing protocol process.

C. Shut the interface, assign the VRF to the interface, and then no shut the interface.

D. Remove the IP address configuration on the interface, assign the VRF to the interface, and then reconfigure the IP address on the interface.

Correct Answer: D

**Configuring VRF Interfaces on PE Routers for Each VPN Customer**

Perform this task to associate a VPN routing and forwarding (VRF) instance with an interface or a subinterface on the PE routers.

Note You must remove IPv4/IPv6 addresses from an interface prior to assigning, removing, or changing an interface's VRF. If this is not done in advance, any attempt to change the VRF on an IP interface is rejected.

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**QUESTION 5**

When using H-VPLS, the PE router may use an IRB interface. How many VLAN tags can be processed by an IRB?

A. 0

B. 1

C. 2

D. 3

Correct Answer: A

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