



Vendor: Cisco

Exam Code: 642-889

Exam Name: Implementing Cisco Service Provider Next-Generation Edge Network Services (SPEDGE)

Version: DEMO

QUESTION 1

Refer to the Cisco IOS XR router output exhibit, which method is being used to transport IPv6 traffic over the service provider network?

```
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
```

- A. 6PE
- B. 6VPE
- C. native IPv6
- D. native IPv4
- E. dual stack

Answer: B

QUESTION 2

Which two statements regarding Cisco 6PE operations are correct? (Choose two.)

- A. The top label in the label stack is assigned by MP-BGP, and it is used to reach the egress PE.
- B. The inner label in the label stack is assigned by MP-BGP, and it is used for IPv6 forwarding at the egress PE.
- C. The top label in the label stack is assigned by LDP, and it is used to reach the egress PE.
- D. The inner label in the label stack is assigned by LDP, and it is used for IPv6 forwarding at the egress PE.

Answer: BC

QUESTION 3

Which Cisco IOS XR BGP configuration command is required to enable MP-BGP to carry IPv6 VPN routes?

- A. address-family ipv4 unicast
- B. address-family ipv6 unicast
- C. address-family vpnv4 unicast
- D. address-family vpnv6 unicast

Answer: D

QUESTION 4

Which statement regarding the Cisco IOS BGP configuration exhibit is correct?

```
router bgp 65101
no bgp default ipv4-unicast
neighbor 172.16.1.1 remote-as 65101
neighbor 172.16.2.1 remote-as 65101
neighbor 172.16.3.1 remote-as 65101
!
address-family ipv4
neighbor 172.16.1.1 activate
neighbor 172.16.3.1 activate
!
address-family vpnv4
neighbor 172.16.2.1 activate
neighbor 172.16.3.1 activate
```

- A. None of the routers will receive IPv4 BGP routes.
- B. Only the 172.16.2.1 and 172.16.3.1 neighbors will receive both VPNv4 routes and IPv4 BGP routes.
- C. Only the 172.16.3.1 neighbor will receive both VPNv4 routes and IPv4 BGP routes.
- D. All three neighbors (172.16.1.1, 172.16.2.1, and 172.16.3.1) will receive both VPNv4 routes and IPv4 BGP routes.
- E. All three neighbors (172.16.1.1, 172.16.2.1, and 172.16.3.1) will receive IPv4 BGP routes.

Answer: C

QUESTION 5

When implementing MPLS Layer 3 VPNs with customers running OSPF as the CE-PE routing protocol, the service provider MPLS backbone looks like what to the CE routers?

- A. the backbone (Area 0)
- B. an external routing domain
- C. a superbackbone that is transparent to the CE OSPF routers
- D. a transit area (similar to a transit area for supporting virtual links)

Answer: C

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