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642-889

Cisco

*Implementing Cisco Service Provider Next Generation
Edge Network Services*

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QUESTION: 1

Which type of VPN requires a full mesh of virtual circuits to provide optimal site-to-site connectivity?

- A. MPLS Layer 3 VPNs
- B. Layer 2 overlay VPNs
- C. GET VPNs
- D. peer-to-peer VPNs

Answer: B

QUESTION: 2

Which three Layer 3 VPN technologies are based on the overlay model? (Choose three.)

- A. ATM virtual circuits
- B. Frame Relay virtual circuits
- C. GRE/IPsec
- D. L2TPv3
- E. MPLS Layer 3 VPNs
- F. DMVPNs

Answer: C, D, F

QUESTION: 3

Which VPN technology uses the Group Domain of Interpretation as the keying protocol and IPsec for encryption that is often deployed over a private MPLS core network?

- A. DMVPN
- B. GET VPN
- C. SSL VPN
- D. L2TPv3

Answer: B

QUESTION: 4

What is the primary difference between 6PE and 6VPE?

- A. 6VPE does not require an MPLS core.
- B. 6VPE requires an IPv6-aware core.
- C. 6VPE provides IPv6 VPN services.
- D. 6VPE tunnels IPv6 packets inside IPv4 packets.

Answer: C

QUESTION: 5

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

Answer: B

QUESTION: 6

Which flavor of MPLS Layer 3 VPN has MPLS enabled on PE-CE links?

- A. basic
- B. CSC
- C. inter-AS
- D. AToM
- E. VPLS

Answer: B

QUESTION: 7

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 vpv4 unicast
- C. address-family ipv4 mdt
- D. address-family ipv4 tunnel
- E. address-family vpls vfi

Answer: A

QUESTION: 8

In MPLS Layer 3 VPN implementations, what is used on the PE router to isolate potential overlapping routing information between different customers?

- A. route targets
- B. VRFs
- C. VC IDs
- D. pseudowire IDs
- E. pseudowire classes

Answer: B

QUESTION: 9

Within the service provider IP/MPLS core network, what must be implemented to enable Layer 3 MPLS VPN services?

- A. IS-IS or OSPF on all the PE and P routers
- B. MP-BGP between the PE routers
- C. RSVP on all the PE and P routers
- D. targeted LDP between the PE routers
- E. LDP between the CE and PE routers

Answer: B

QUESTION: 10

In MPLS Layer 3 VPN implementations, which mechanism is used to control which routes are imported to a VRF?

- A. RT
- B. RD
- C. VC ID
- D. PW ID
- E. VRF ID

Answer: A

QUESTION: 11

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: B, C

QUESTION: 12



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