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Exam : **300-515**

Title : **Implementing Cisco Service
Provider VPN Services**

Vendor : **Cisco**

Version : **DEMO**

NO.1 Refer to the exhibit. What is the effect of this configuration?

```
ip vrf mvpn-extranet
rd 12:1
vpn id 12:1
route-target import 12:2
route-target export 12:3
mdt default mpls mldp 192.168.1.2
exit
ip multicast-routing vrf mvpn-extranet
```

- A. An LSP virtual interface tunnel is created.
- B. The mroute table is cleared.
- C. A Cisco MPLS TE tunnel is generated with 192.168.1.2 as the source IP address of router 1.
- D. Router 1 accepts multicast routes with a tag of 12:1

Answer: D

NO.2 An engineer is investigating an issue. Which command should an engineer use on a Cisco IOS XE device to display the contents of the LFIB?

- A. show mpls ldp neighbors
- B. show mpls ldp bindings
- C. show mpls ldp labels
- D. show mpls forwarding-table

Answer: D

NO.3 In MPLS Layer 3 VPN implementations, which mechanism is used to control which routes are imported to a VRF?

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

Answer: E

NO.4 Which utility can you use to validate an LSP in an MPLS environment?

- A. logging
- B. RSVP
- C. uRPF
- D. MPLS LSP ping

Answer: D

NO.5 You are writing the requirements for an MPLS L3VPN environment that uses MP-BGP between PE routers. In this environment, route targets and route distinguishers need to be advertised between the PE routers.

Which three operations meet these requirements? (Choose three.)

- A. advertisement of standard communities, enabled on the PE-to-PE BGP neighbors
- B. creation of PE-to-PE BGP sessions between loopback IP addresses
- C. full mesh of EBGP sessions and partial mesh of IBGP sessions
- D. mandatory creation of PE-to-PE BGP sessions between the outgoing interface IP addresses
- E. full mesh of IBGP sessions
- F. advertisement of extended communities, enabled on the PE-to-PE BGP neighbors

Answer: B,E,F

NO.6 You try to configure MPLS VPN VRF Selection based on a source IP address on an interface that has VRF configured, but you receive an error.

Which action must you take to correct the problem?

- A. Add the IP address to the VRF table.
- B. Configure static routes for the VRF.
- C. Change the source IP address.
- D. Remove the VRF from the interface.

Answer: D

NO.7 Refer to the exhibit. PE1 and PE2 are exchanging VPNv4 routes for CE1 and CE2, and PE3 contains the default route to the internet. If the three devices are operating normally, which two conclusions describe this configuration? (Choose two.)

| | |
|---|---|
| PE1 ip vrf CE1 rd 111:1 route-target export 100:1 route-target import 200:2 | PE2 ip vrf CE2 rd 112 :2 route-target export 200:2 route-target import 100:1 route-target import 300:3 |
| PE3 ip vrf Internet rd 333:3 route-target export 300:3 route-target import 100:1 route-target import 200:2 | |

- A. All three routers must be running MP-BGP.
- B. The CE1 and CE2 VRFs can exchange routes only between their respective VRFs on PE1 and PE2.
- C. The CE1 and CE2 VRFs can access the default route provided by the Internet VRF.

- D. All three routers must be running a distance-vector routing protocol.
- E. Only the CE2 VRF can access the default route provided by the Internet VRF.

Answer: A,B

NO.8 An ISP provides a major client MPLS VPN for managed services. The MPLS engineering team needs to use the advanced VPN feature of selective VRF import so that only specific prefixes are present in the required VPNs.

Which aspect of this feature must the team consider?

- A. A route must pass the import route map first and then the route target import filter.
- B. A route is imported into the VRF only when at least one RT that is attached to the route matches one RT that is configured in the VRF and the route is permitted by the import route map.
- C. The import-map command is applied under the PE interface that connects to the CE router.
- D. The routes that are imported in the VRF can be BGP and IGP routes, so other match conditions in the route map, besides communities, can be used.

Answer: B

NO.9 Refer to the exhibit. A network operator is implementing EVPN IRB on PE1. Which two command placements enable the advertisement of Type 2 routes and what information do Type 2 routes contain? (Choose two.)

```
RP/0/0/CPU0:PE1#show run
evpn
no evi 100
no advertise-mac
!
!
vrf EVPN
address-family ipv4 unicast
import route-target
133:100
export route-target
133:100
!
!
interface BVI651
vrf EVPN
ipv4 address 192.168.100.1 255.255.255.0
mac-address 1337.1337.1337
```

- A. Type 2 routes contain inclusive source-specific multicast route information.

- B. The operator adds in "host-routing" under the BVI651 interface.
- C. The operator adds in "host-routing" under the VRF EVPN.
- D. Type 2 routes contain MAC/IP information.
- E. Type 2 routes contain Ethernet Auto-Discovery information.

Answer: B,D