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Implementing Cisco Service Provider VPN Services

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Question: 1

Which utility can you use to validate an LSP in an MPLS environment?

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

Answer: B

Question: 2

What is the primary function of a VRF on a router?

A. It enables the router to support multiple separate routing tables, which allows the device to handle overlapping IP addresses.
B. It enables a router to run BGP and a distance vector routing protocol at the same time, which allows it to serve as a VPN endpoint between remote sites.
C. It enables a router to configure VLANs locally, which provides segregation between networks.
D. It enables the router to provide faster switching through the network by using labels to identify the input and output interfaces for neighbor routers.

Answer: A

Question: 3

Which two statements describe primary differences between MPLS Layer 2 and Layer 3 VPNs? (Choose two.)

A. Layer 2 VPNs use IPsec tunneling, but Layer 3 VPNs use L2TPv3 tunneling.
B. Layer 2 VPNs use AToM, but Layer 3 VPNs use MPLS/BGP.
C. Layer 2 VPNs use BGP, but Layer 3 VPNs use VPLS.
D. Layer 2 VPNs use L2TPv3 tunneling, but Layer 3 VPNs use GRE tunneling.

E. Layer 2 VPNs use IPsec tunneling, but Layer 3 VPNs use pseudowires to provide tunneling.

Answer: B, D

Question: 4

Refer to the exhibit.

PE1 ip vrf CE1 rd 101:1 route-target export 100:1 route-target import 200:2	PE2 ip vrf CE2 rd 202:2 route-target export 200:2 route-target import 100:1
PE3 ip vrf CE3 rd 303:3 route-target export 300:3 route-target import 400:4	PE4 ip vrf CE4 rd 404:4 route-target export 400:4 route-target import 300:3

A network engineer has been called to configure the four PE devices in order to enable full communication among the four CE devices connected to them. While starting to configure, he experienced a connectivity issue. Which two tasks should the engineer perform in order to begin the process correctly? (Choose two.)

A. Configure PE3 to export route-targets 100:1 and 200:2.
B. Configure PE3 to import route-targets 100:1 and 200:2.
C. Configure PE4 to import route-targets 101:1 and 202:2.
D. Configure PE2 to export route-targets 300:3 and 400:4.
E. Configure PE1 to import route-targets 300:3 and 400:4.

Answer: A, B

Question: 5

Refer to the exhibit.

PE1	CE1

ip vrf ce1vpn
  rd 111:1
  route-target export 111:1
  route-target import 222:2
 	
interface FastEthernet0/0/0
  ip vrf forwarding ce1vpn
  ip address 192.168.0.1 255.255.255.0
 	
router ospf 1 vrf ce1vpn
  network 192.168.0.0 0.0.0.255 area 1
	interface FastEthernet0/0/0
	  ip address 192.168.0.2 255.255.255.0
	
	interface FastEthernet0/0/1
	  ip address 192.168.1.2
	255.255.255.252
	
	router ospf 100
	  network 192.168.0.0 0.0.0.255 area1
	
	router bgp 65600
	  neighbor 192.168.1.1 remote-as 65600

If the two devices are operating normally, which two conclusions can you draw from this configuration? (Choose two.)

A. CE1 must use OSPF to establish a neighbor relationship with PE1.
B. PE1 labels the routes it learns from CE1 with the route-target 222:2 and shares them with its VPNv4 peers.
C. PE1 labels the routes it learns from CE1 with the route-target 111:1 and shares them with its VPNv4 peers.
D. The PE-CE routes between the devices are being exchanged by OSPF
E. CE1 is supporting CSC.

Answer: A, D

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