Vendor: CISCO

Exam Code: 642-780

Exam Name: Maintaining Cisco Service Provider VPNs and MPLS Networks (MSPVM)

Version: DEMO
The customer has an MPLS Layer 3 VPN service CE-A is not able to ping the CE-B loopback address 10.60.6.6 CE-A is able to ping the CE-B network interface address 172.16.60.66. What must be added to the configuration to allow the loopback ping to work?

A. The PE-B configuration needs a neighbor 10.60.6.6 command added
B. The PE-B configuration needs interface loopback0 added under vrf red area 0
C. The CE-B configuration needs to static route added for the PE-B connected interface
D. The CE-B configuration needs network 10.60.6.6 under router ospf 1

Answer: D
What type of MPLS LAYER 3 VPN configurations is represented?

A. Simple two-VPN scenario
B. Overlapping VPNs
C. Central services VPNs
D. Extranet VPNs

Answer: C

**QUESTION 3**
In a service provider layer 3 MPLS VPN implementations, what is the minimum number of routing on the PE routers?

A. Three
B. Four
C. Five
D. Six

Answer: A

**QUESTION 4**
Refer to the exhibit.
The commands on the figure were executed from a cisco ASR 9000 series router. The remote end of ping is cisco XR 12000 series router. Which statement is true?

A. The XR 12000 has an access list that blacks the MPLS pseudowire ping
B. The interface connected to the XR 12000 is not running LDP
C. These results will occur during convergence when MPLS LDP sync is enabled
D. The MPLS pseudowire ping was not sent

Answer: D

QUESTION 5
Refer to the exhibit.
The output from the debug command is from the Cisco XR12000 series Router, which statement is true?

A. The output is the result of single iteration of mpls ping executed on the cisco ASR 9000 Series Router
B. The output is the result of single iteration of mpls ping executed on the cisco ASR 9000 series Router
C. The packets did not reach its destination because the control word was not found
D. The output is the result of single iteration of mpls ping executed on the cisco CRS-1 carrier routing system.

Answer: C

QUESTION 6
You have configured a MPLS-TE tunnel with a predefined explicit path as primary and dynamic path as the backup. The tunnel was designed to carry customer traffic from site A to site B. Although the MPLS-TE tunnel is set up, it is not carrying the traffic. Traffic has to go to network 171.68.0.0/16 connected to site B. Which three show commands would you use to identify and resolve the issue?

A. Show mpls traffic-eng-link-management bandwidth to check the bandwidth is available.
B. Show ip cef network-number to check if tabs are imposed
C. Show mpls traffic-eng topology ipg-id ospf network number brief to check routing issue
D. Show mpls traffic-eng autoroute to check auto routing is enabled
E. Show mpls forwarding-table LABEL-number details to outgoing tags
F. Show ip cef tunnel 1 to check traffic is passing through the tunnel

Answer: DE

QUESTION 7
You have been assigned the task of collecting the relevant information for trouble shooting a Layer 3 MPLS VPN routing issue across two (same VPN) for a customer. After initial diagnostics you have ruled out any connectivity issues and any hardware or software bugs. Which four steps should you use to collect information for troubleshooting the VPN routing issue? (Choose four)

A. Redistribution of routes into MP-BGP
B. Route fillers that might prevent routes from propagating
C. Interface state between PE and CE devices
D. VRF route target import and export details
E. MPLS forwarding state between PE and core routers
F. VRF route limit on the PE devices
G. Interface error counters on the customer-facing PE interface

Answer: ABDE

QUESTION 8
Which three MPLS services require MPLS layer 2 VPNs? (Choose three)

A. Any-to-any interworking
B. Central services VPN
C. VPLS
D. VPWS

Answer: ACD

QUESTION 9
A service provider is running OSPF and has turned the network for fast convergence. The service provider has determined that its routers should also be configured for LDP synchronization. If the service provider follows ITIL-based practices, how should this change be treated?

A. As a standard change
B. As a minor change
C. As a major change
D. As an emergency change

Answer: D

QUESTION 10
What are three basic functional requirements when configuring MPLS layer 2 VPLS? (Choose three)

A. A CE to PE routing protocol must be used to exchange routing prefixes
B. A full mesh of pseudowire (emulated VC) connections must be used between PE routers
C. Each PE must have a VFI configured
D. LDP protocol must be running
E. Auto discovery is needed to identify endpoints outside of the VPLS domain.

Answer: BCD