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Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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QUESTION 1

Refer to the exhibit.

```
interface loopback 0
 ipv4 address 10.0.0.1/24
 no shutdown
!
interface loopback 1
 ipv4 address 10.2.0.1/24
 no shutdown
!
ipv4 access-list acl1
 10 permit 224.11.11.11 0.0.0.0 any
!
ipv4 access-list acl2
 10 permit 224.99.99.99 0.0.0.0 any
!
multicast-routing
 interface all enable
!
router pim
 auto-rp mapping-agent loopback 0 scope 15 interval 60
 auto-rp candidate-rp loopback 0 scope 15 group-list acl1 interval 60 bidir
 auto-rp candidate-rp loopback 1 scope 15 group-list acl2 interval 60
!
end
```

Which three statements are correct regarding the Cisco IOS-XR configuration? (Choose three.)

A. This router, acting as the RP mapping agent, will send RP announcement messages to the 224.0.1.40 group

B. This router, acting as the RP mapping agent, will send RP discovery messages to the 224.0.1.39 group

C. This router is the RP mapping agent only for the 224.11.11.11 and 224.99.99.99 multicast groups

D. This router is a candidate PIM-SM RP for the 224.99.99.99 multicast group

E. This router is a candidate PIM-BIDIR RP for the 224.11.11.11 multicast group

F. IGMPv3 is enabled on all interfaces

G. Other routers will recognize this router as the RP for all multicast groups with this router loopback 0 IP address

Correct Answer: DEF

QUESTION 2

Refer to the exhibit.

Router(config-router)#no bgp client-to-client reflection intra-cluster cluster-id 192.168.1.1

Routers within the cluster are not receiving the desired prefixes. What must be done to fix the issue?

A. Clients in that cluster must have full mesh connectivity between eBGP peers.

B. No client-to-client must be disabled.

C. Clients in that cluster must have full mesh connectivity between iBGP peers.

D. No client-to-client reflection must be enabled.

Correct Answer: C

QUESTION 3
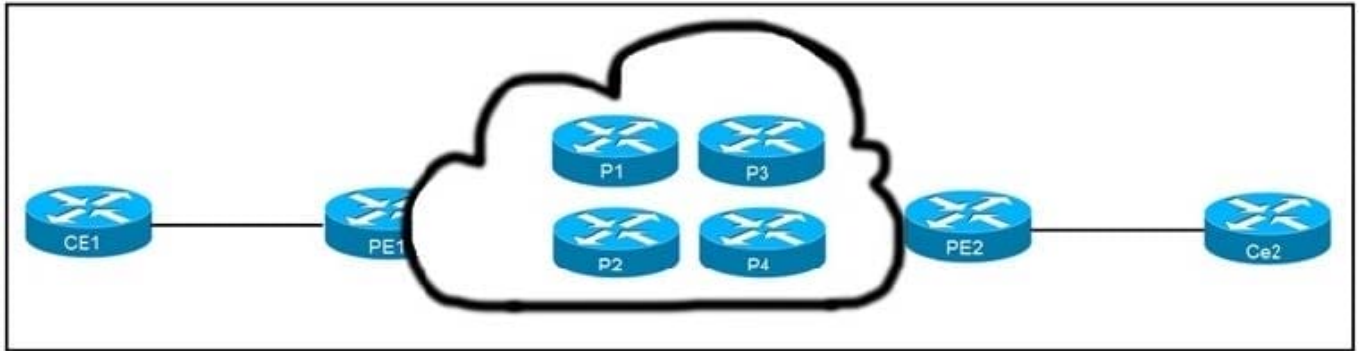
Which task is performed when troubleshooting LDP?

A. Execute the ping utility to generate information about the MAC addresses used along the path

B. Verify that MPLS is disabled globally and enabled on the necessary interfaces in a per-interface basis

C. Execute the traceroute utility to generate information about the labels used along the path

D. Verify that Cisco Express Forwarding has been disabled on the network

Correct Answer: C

QUESTION 4
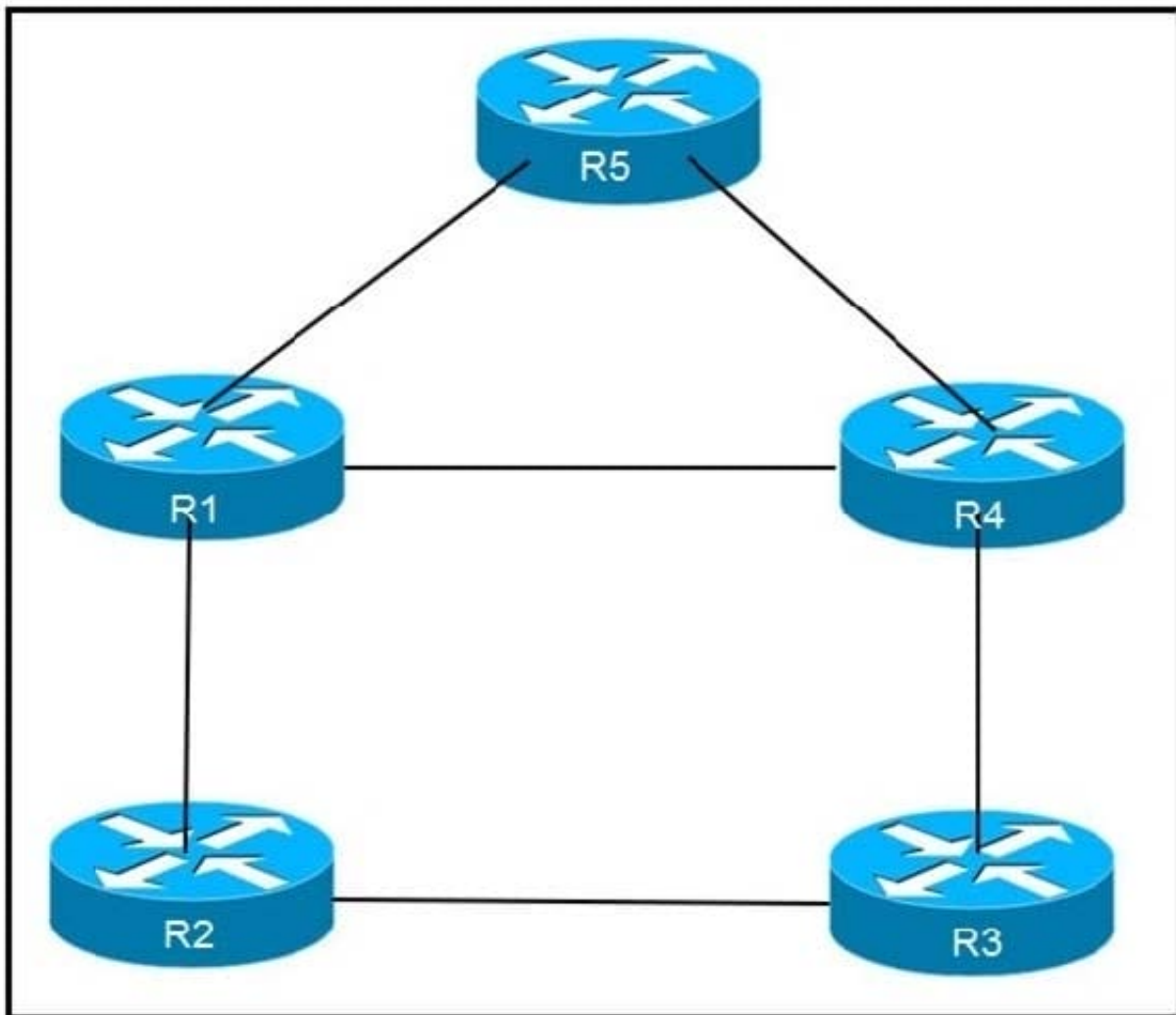
Refer to the exhibit.

CE1 and CE2 cannot communicate through the service provider BGP peering is established between PE1 and PE2. IS-IS is the only routing protocol running in the service provider core. What step can be done to troubleshoot the issue?

A. Switch the IGPs running in the core from IS-IS to OSPF to support a Cisco MPLS TE tunnel from PE1 to PE2.

B. Configure BGP between CE and PE routers.

C. Confirm that IS-IS is running with metric-style narrow.

D. Verify the MPLS LSPs.

Correct Answer: C

QUESTION 5

Refer to the exhibit.

An engineer is addressing an IS-IS design issue which is running within the topology. All links are running on FastEthernet, except the link between R5 and R4, which is Gigabit Ethernet. Which statement about the design is true?

A. R4 prefer to reach R5 using R1 as the next hop

B. All links have equal cost if the default metric is used

C. R5 prefers to use R4 as the next hop for all routes

D. R1 prefer to use R5 as the next hop to reach R4

Correct Answer: B