300-510 Q&As

Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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QUESTION 1

Refer to the exhibit.

```
R1>show ip bgp
BGP table version is 1986541, local router ID is 172.16.212.76
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal
Origin codes: i - IGP, e - EGP, ? - incomplete

   Network          Next Hop            Metric LocPrf Weight Path
*> 11.21.10.0/24    172.16.211.4             0             0 3421 12131 152 i
*> 11.22.14.0/24    172.11.12.54             0             0 3421 15243 3242 35673 35673 i
*> 11.23.15.0/24    192.16.22.19             0             0 3421 15243 3242 35673 152 i
*> 11.24.16.0/24    17.1.212.79              0             0 3421 1345 4166 15298 35673 32451 i
*> 11.25.17.0/24    15.65.21.9             120           0 3421 1345 152 15298 35673 32451 i
*> 11.26.20.0/23    11.16.212.7            215           0 3421 2211 2214 2854 i
```

Company A established BGP sessions with several ISPs. A network engineer at the company must filter out all traffic except for routes that transit AS 152.

The engineer configured the filtering policy "permit _152S_(_[0.9])" on R1, but after applying the configuration, the engineer notices that other routes are still visible.

Which action resolves the issue?

- Change the filtering policy to **ip as-path access-list 1 permit _152_**.
- Add a second filtering policy in the format **ip access-list 1 permit ^152_([0-9]+)**.
- Change the filtering policy to **ip explicit-path 1 permit $152^**.
- Add a second filtering policy in the format **ip prefix-list 1 permit ^152^**.

A. Option A

B. Option B

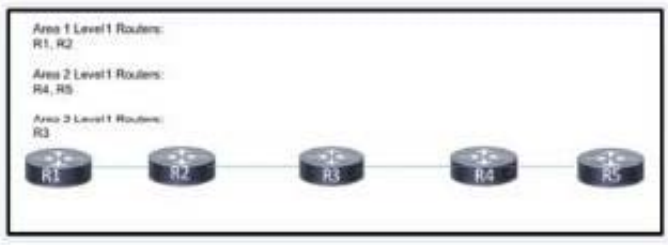
C. Option C

D. Option D

Correct Answer: A

QUESTION 2

Refer to the exhibit.



This network is deployed with all connected links configured to run IS- IS.

The routing protocol is enacted globally on each router, and the network engineer expects full routing Information to be shared among all routers. R5 is receiving routes from R4 but is missing routes from R1.

Which action corrects the issue so that all routes are shared among the routers?

A. Configure all routers to reside in toe area.

B. Configure RI and RS as Level 1"Level 2

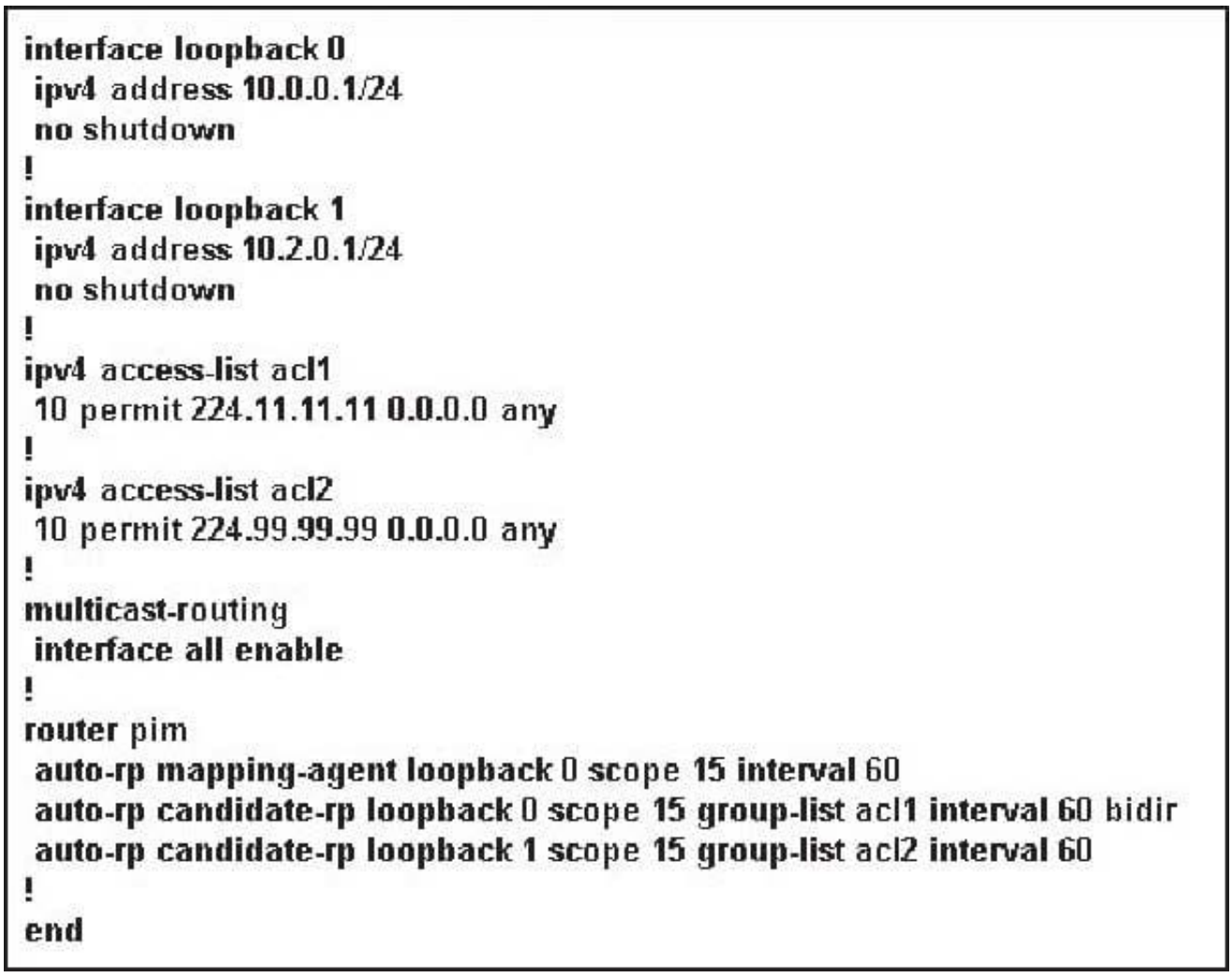
C. Configure R3 as a Level 2 we.

D. Configure R5 in the same as RI,

Correct Answer: A

QUESTION 3

Refer to the exhibit.



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 4

Refer to the exhibit.

```
R1#sh ip int bri
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/0        10.1.12.1       YES manual up                    up
FastEthernet0/1        10.1.13.1       YES manual up                    up

R1#sh run | s router bgp
!
router bgp 123
bgp log-neighbor-changes
neighbor TEST peer-group
neighbor TEST remote-as 2 alternate-as 3
neighbor 10.1.12.2 peer-group TEST
neighbor 10.1.13.3 peer-group TEST

R2#sh ip int bri
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/0        10.1.12.2       YES manual up                    up

R2#sh run | s router bgp
!
router bgp 2
bgp log-neighbor-changes
neighbor 10.1.12.1 remote-as 123

R3#sh ip int bri
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/1        10.1.13.3       YES manual up                    up

R3#sh run | s router bgp
router bgp 3
bgp log-neighbor-changes
neighbor 10.1.13.1 remote-as 123
```

R1 is directly connected to R2 and R3. R1 is in BGP AS 123, R2 is in BGP AS 2, and R3 is in BGP AS 3. Assume that there is no connectivity issue between R1, R2 and R1, R3. Which result between BGP peers R1, R2 and R1, R3 is true?

A. The BGP session does not come up between R1 and R2 and between R1 and R3.

B. The BGP session comes up between R1 and R2 and between R1 and R3.

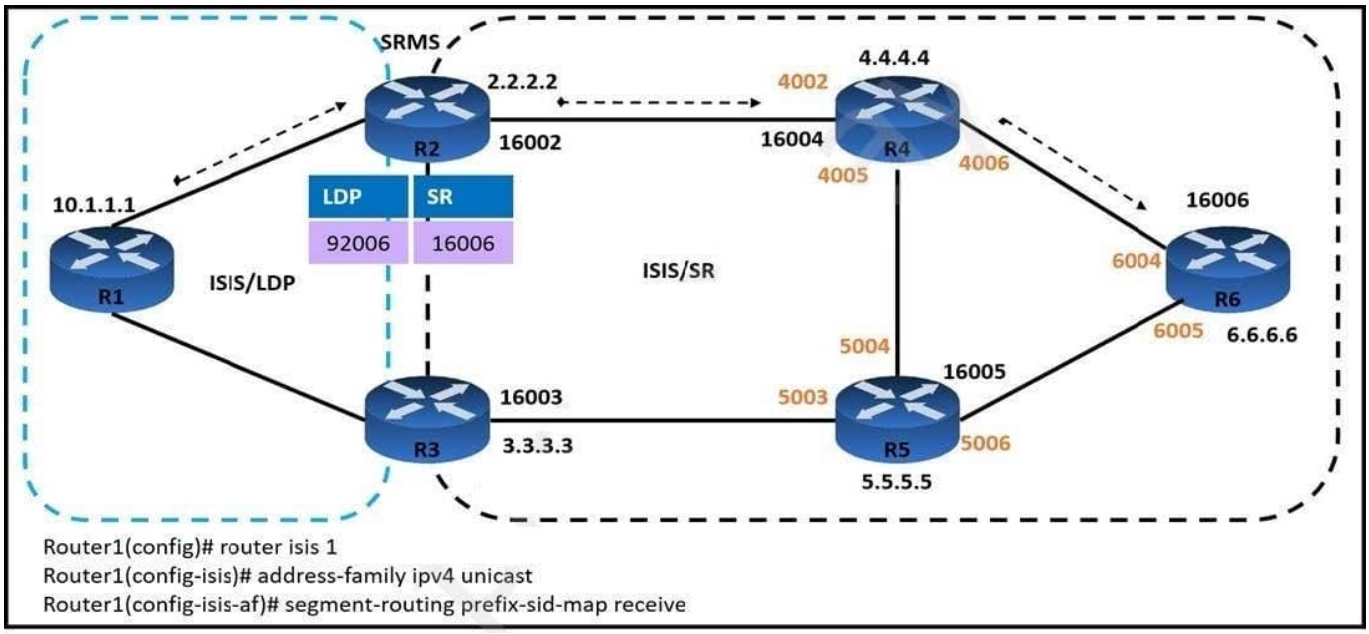
C. The BGP session comes up between R1 and R3, but not between R1 and R2.

D. The BGP session comes up between R1 and R2, but not between R1 and R3.

Correct Answer: B

QUESTION 5

Refer to the exhibit



An engineer is configuring service traffic from router R1 to R6 as shown. Which additional configuration must the engineer implement so that the LDP and SR domains will participate and interwork with each other?

A. Router2(config)# segment-routing Router2(config-sr)# ldp mapping-server Router2(config-sr-ms)# prefix-sid-map Router2(config-sr-ms-map)# Router2(config-sr-ms-map-af)# 2.2.2.2/32 500 range 4

B. Router2(config)# segment-routing Router2(config-sr)# sr mapping-server Router2(config-sr-ms)# ldp-sid-map Router2(config-sr-ms-map)# address-family ipv4 Router2(config-sr-ms-map-af)# 10.1.1.1/32 500 range 50

C. Router2(config)# segment-routing Router2(config-sr)# mapping-server Router2(config-sr-ms)# prefix-sid-map Router2(config-sr-ms-map)# address-family ipv4 Router2(config-sr-ms-map-af)# 10.1.1.1/32 500 range 50

D. Router2(config)# segment-routing Router2(config-sr)# ldp mapping-server Router2(config-sr-ms)# prefix-sid-map Router2(config-sr-ms-map)# address-family ipv4 Router2(config-sr-ms-map-af)# 2.2.2.2/32 500 range 40

Correct Answer: C

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/segment-routing/configuration/guide/b-seg-routing-cg-asr9k/b-seg-routing-cg-asr9k_chapter_01001.html