300-510 Q&As

Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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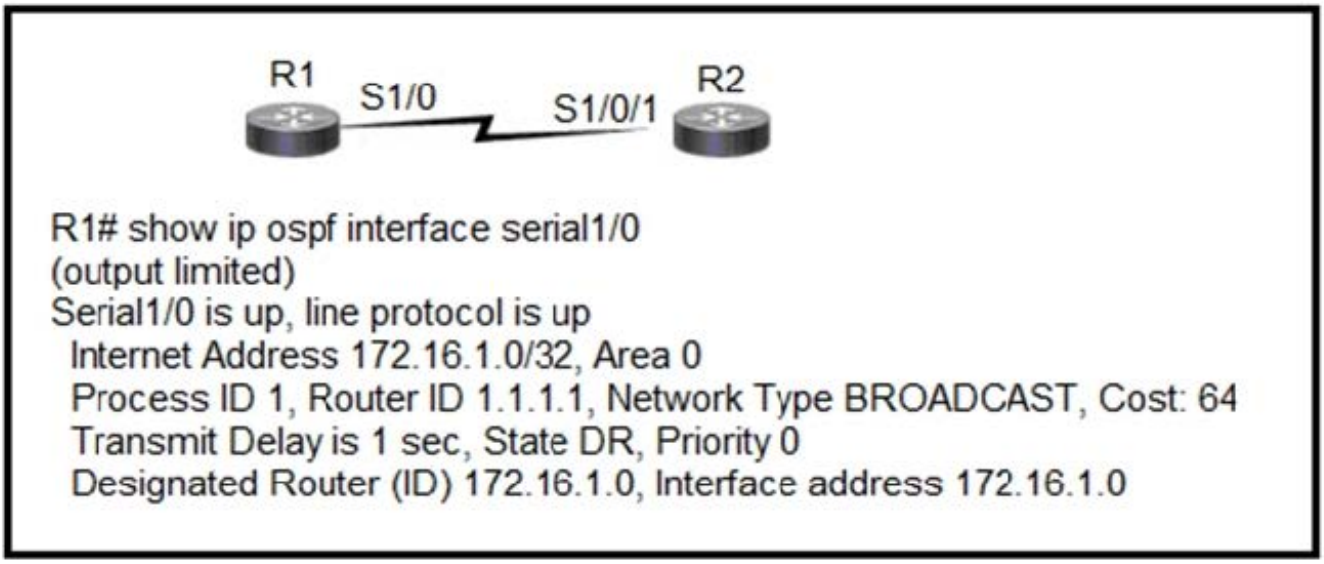
QUESTION 1

Refer to the exhibit.



While configuring router 2 with all the default values, a network engineer cannot see any route received in router 1. How should the engineer solve the issue?

A. Set up a priority different than 0 in the interface.

B. Modify the router ID to be the interface IP on the serial.

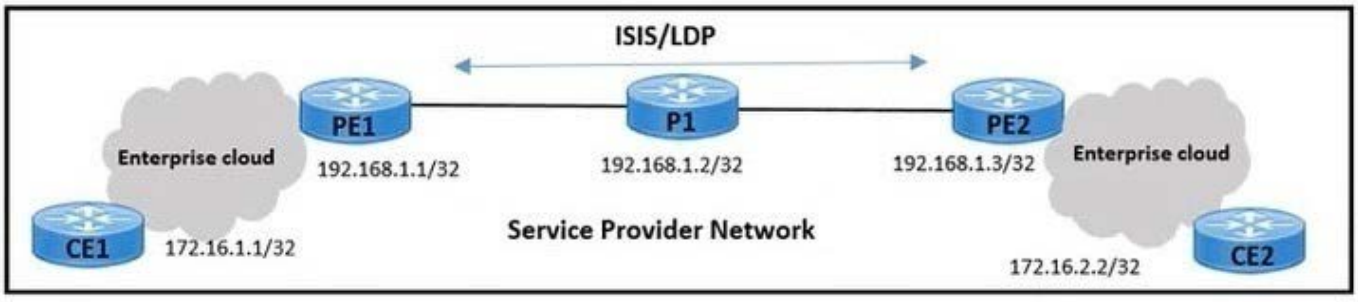
C. Modify the IP address or mask of the interface to a valid one.

D. Set the network type in S1/0 to point-to-point.

Correct Answer: C

QUESTION 2

Refer to the exhibit.



An engineer working for a private telecommunication company with an employee id 4115 46 881 is enabling a segment routing solution with these requirements. A service provider is using the default range for prefix SID. PE1 must allocate the first SID from the default range for the loopback address PE1 and PE2 loopback SID allocation should have a minimum difference of 500.

Which configuration must be implemented to meet the requirements?

- PE1(config-isis-if-af)# **adjacency-sid absolute 16201**
  PE2(config-isis-if-af)# **adjacency-sid absolute 16710**
- PE1(config-isis-if-af)# **prefix-sid absolute 16001**
  PE2(config-isis-if-af)# **prefix-sid index 610**
- PE1(config-isis-if-af)# **prefix-sid absolute 16201**
  PE2(config-isis-if-af)# **prefix-sid absolute 16710**
- PE2(config-isis-if-af)# **adjacency-sid absolute 16001**
  PE1(config-isis-if-af)# **adjacency-sid index 610**

A. Option A

B. Option B

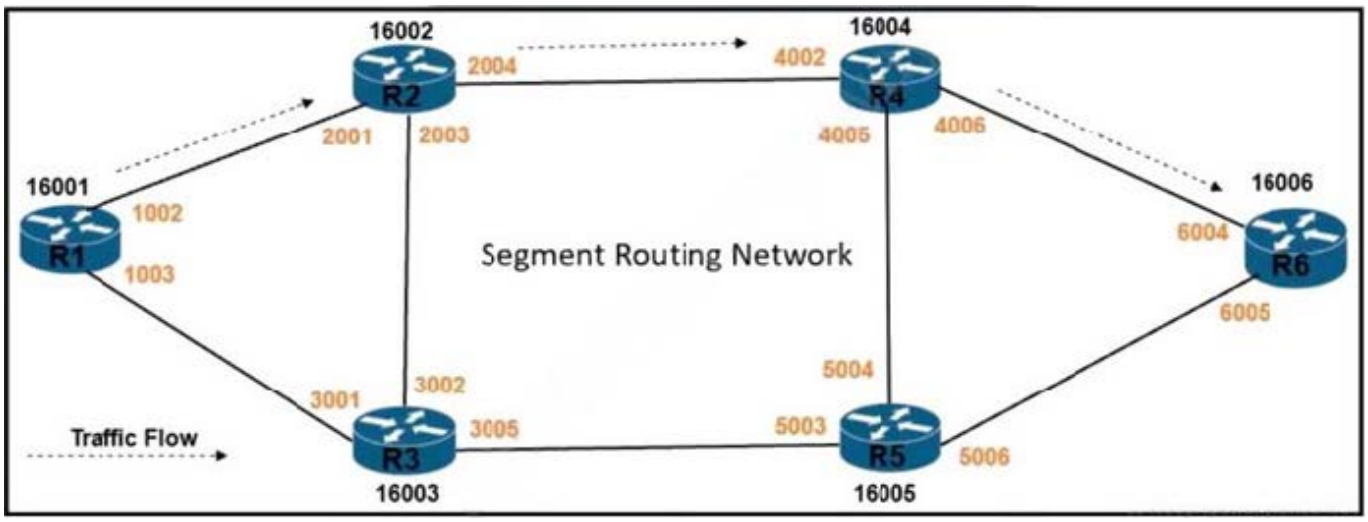
C. Option C

D. Option D

Correct Answer: B

QUESTION 3

Refer to the exhibit.



R1 is sending data traffic to R6 using the same SRGB range as the other routers in the topology, but it is also using a non-default SRLB range. Which two configuration tasks must the engineer perform to enable normal SRGB and SRLB operations on this network? (Choose two.)

A. Configure router R2 with adjacency SID 4002 to enable it to reach R4.

B. Configure an adjacency SID from SRLB range 1002 to 6005.

C. Set the SRGB range to 1002 to 6005.

D. Configure router R1 with adjacency SID 1003 to enable it to reach R2.

E. Set the default SRGB range to 16000 to 23999.

Correct Answer: BE

QUESTION 4

Refer to the exhibit.

```
RP/0/0/CPU0:P1#                          RP/0/0/CPU0:PE3#
!                                        !
key chain BGP                            key chain BGP
key 1                                    key 1
key-string password cisco123             key-string password cisco123
cryptographic-algorithm HMAC-MD5         cryptographic-algorithm HMAC-MD5
!                                        !
router bgp 1                             router bgp 1
address-family ipv4 unicast              address-family ipv4 unicast
!                                        !
neighbor 192.168.13.3                    neighbor 192.168.13.1
   remote-as 1                              remote-as 1
   keychain BGP                             keychain BGP
   address-family ipv4 unicast              address-family ipv4 unicast
```

P1 and PE3 Cisco IOS XR routers are directly connected and have this configuration applied.

The BGP session is not coming up.

Assume that there is no IP reachability problem and both routers can open tcp port 179 to each other.

Which action fixes the issue?

A. Change HMAC-MD5 to HMAC-SHA1-20

B. Configure the send and accept lifetime under key 1

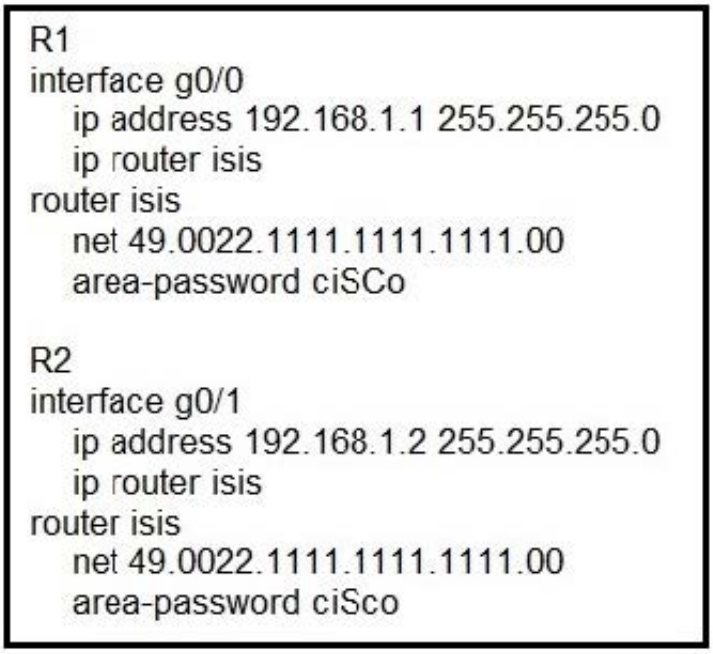
C. Change HMAC-MD5 to MD5

D. Change HMAC-MD5 to HMAC-SHA1-12

Correct Answer: B

QUESTION 5

Refer to the exhibit.



After you applied these configurations to routers R1 and R2, the two devices could not form a neighbor relationship. Which reason for the problem is the most likely?

A. The two routers cannot authenticate with one another.

B. The two routers have the same area ID.

C. The two routers have the same network ID.

D. The two routers have different IS-types.

Correct Answer: C

For those asking about the password, area authentication doesn\\'t prevent neighboring to come up because it is carried only in LSP, CSNP and PSNP messages and not in IIH messages. https://www.cisco.com/c/en/us/support/docs/ip/integrated- intermediate-system-to-intermediate-system-is-is/13792-isis-authent.html