300-510 Q&As

Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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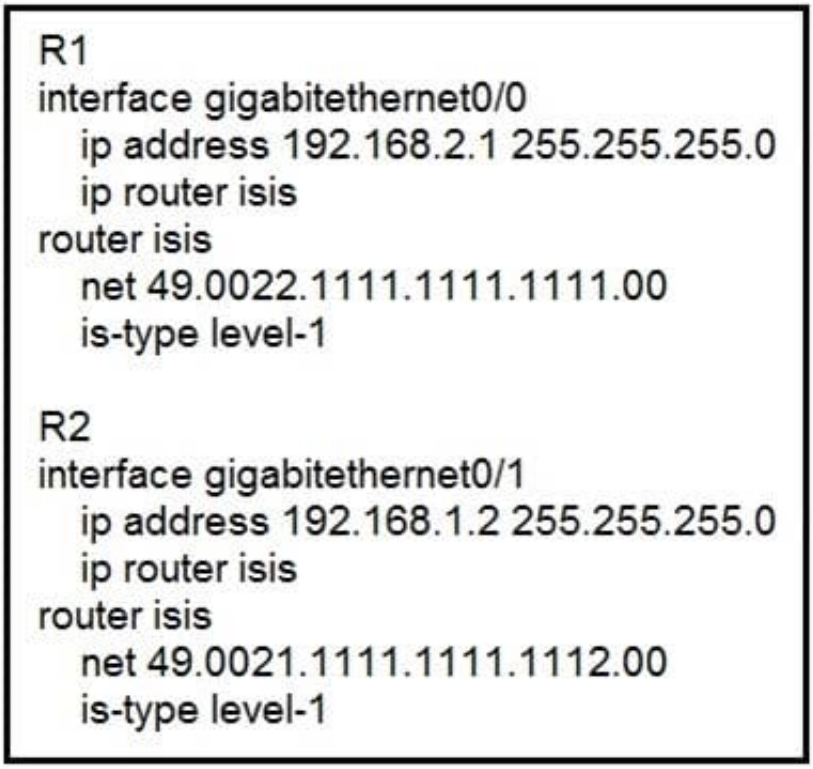
QUESTION 1

Refer to the exhibit.



Routers R1 and R2 cannot form a neighbor relationship, but the network is otherwise configured correctly and operating normally. Which two statements describe the problem? (Choose two.)

A. The two routers are in the same area

B. The two routers are in different subnets

C. The two routers have password mismatch issues

D. The two routers have the same network ID

E. The two routers are in different areas

Correct Answer: BE

QUESTION 2

You have configured routing policies on a Cisco IOS XR device with routing policy language. Which two statements about the routing policies are true? (Choose two.)

A. The routing policies affect BGP-related routes only.

B. If you make edits to an existing routing policy without pasting the full policy into the CLI, the previous policy is overwritten.

C. You can change an existing routing policy by editing individual statements.

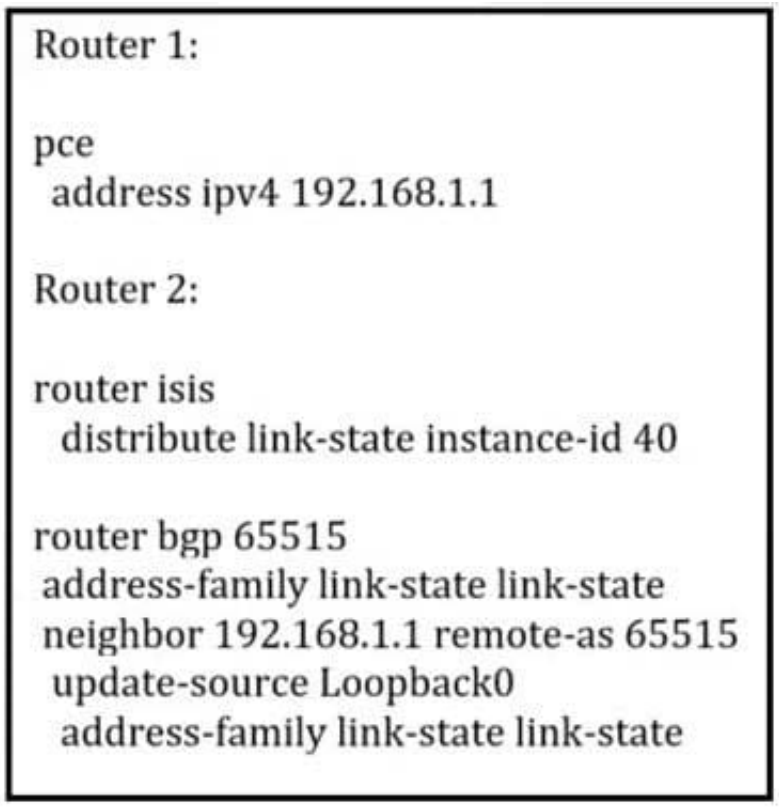
D. The routing policies are implemented in a sequential manner.

E. The routing policies are implemented using route maps.

Correct Answer: CD

QUESTION 3

Refer to the exhibit.



What is the relationship between Router 1 and Router 2?

A. Router 1 centrally learns the topology of the network to aid in SR-TE path selection, and Router 2 is a node that feeds Router 1 topology information.

B. Router 1 and Router 2 are participating in SR-TE tunnels and are both head-end routers.

C. Router 1 and Router 2 centrally learn the topology of the network to aid in SR-TE path selection for peers.

D. Router 2 is the head-end router in an SR-TE tunnel, and it is learning topology of the network from the PCE enabled on Router 1.

Correct Answer: D

QUESTION 4

Refer to the exhibit A network engineer configured the redistribute connected subnets route-map filtering command on R1 to redistribute connected interfaces to the OSPF process

```
R1#show route-map
route-map filtering, permit, sequence 10
   Match clauses:
      ip address (access-lists): 1
   Set clauses:
   Policy routing matches: 0 packets, 0 bytes
route-map filtering, deny, sequence 20
   Match clauses:
      ip address (access-lists): 2
   Set clauses:
   Policy routing matches: 0 packets, 0 bytes
route-map filtering, permit, sequence 30
   Match clauses:
   Set clauses:
   Policy routing matches: 0 packets, 0 bytes

R1#show access lists
Standard IP access list 1
      10 permit 10.0.0.0, wildcard bits 0.0.0.255 (0 matches)
Standard IP access list 2
      10 deny   10.0.1.0, wildcard bits 0.0.0.255 (1 match)
```

The engineer also wants to filter out IP address 10 0 1 0/24. but the prefix still appears in the routing tables of the other routers on the network.

Which action corrects the problem?

A. Remove route-map sequence 30.

B. Add a set statement to route-map sequence 20.

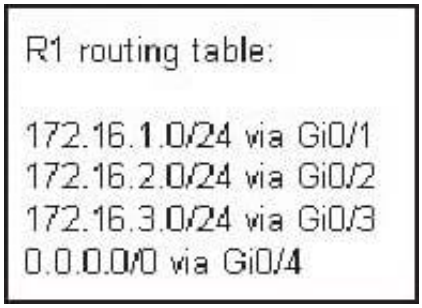
C. Change the deny statement in access list 2 to permit

D. Remove the subnets keyword from the redistribute connected subnets route-map filtering command.

Correct Answer: C

QUESTION 5

Assume that the R1 router is enabled for PIM-SM and receives a multicast packet sourced from 172.16.1.100, and the R1 router has multicast receivers on the Gi0/1, Gi0/2, Gi0/3 and Gi0/4 interfaces.



The multicast packet from the 172.16.1.100 source must arrive on which interface on the R1 router for it to be forwarded out the other interfaces?

A. Gi0/1

B. Gi0/2

C. Gi0/3

D. Gi0/4

E. Gi0/1 or Gi0/2 or Gi0/3 or Gi0/4

F. Gi0/2 or Gi0/3

G. Gi0/1 or Gi0/4

Correct Answer: A