Cisco

Exam Questions 300-510

Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

NEW QUESTION 1

```
R1
interface g0/0
    ip address 192.168.1.1 255.255.255.0
    ip router isis
router isis
    net 49.0022.1111.1111.1111.00
    area-password ciSCo

R2
interface g0/1
    ip address 192.168.1.2 255.255.255.0
    ip router isis
router isis
    net 49.0022.1111.1111.1111.00
    area-password ciSco
```
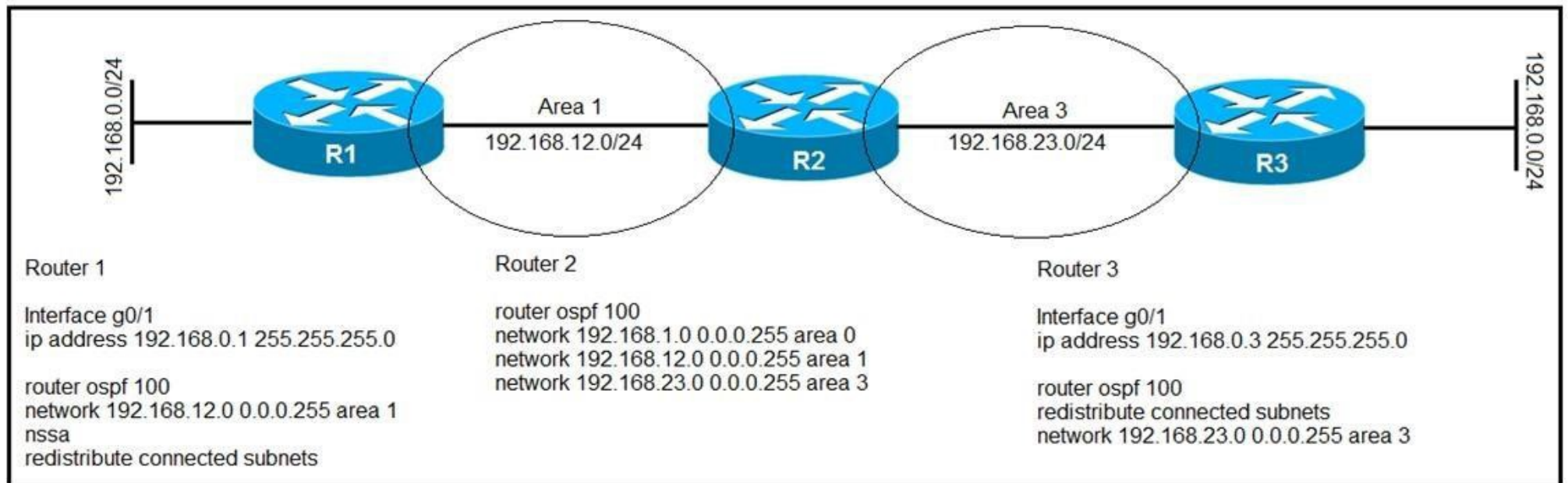
Refer to the exhibit. After you applied these configurations to routers R1 and R2, the two devices could not form a neighbor relationship. Which reason for the problem is the most likely?

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.

Answer: C

NEW QUESTION 2

Router 1

Interface g0/1
ip address 192.168.0.1 255.255.255.0

router ospf 100
network 192.168.12.0 0.0.0.255 area 1
nssa
redistribute connected subnets

Router 2

router ospf 100
network 192.168.1.0 0.0.0.255 area 0
network 192.168.12.0 0.0.0.255 area 1
network 192.168.23.0 0.0.0.255 area 3

Router 3

Interface g0/1
ip address 192.168.0.3 255.255.255.0

router ospf 100
redistribute connected subnets
network 192.168.23.0 0.0.0.255 area 3

Refer to the exhibit. After troubleshooting an OSPF adjacency issue, routers 1, 2, and 3 have formed OSPF neighbor relationships. Which statement about the configuration is true?

A. Router 2 receives a Type 5 LSAs from router 1 for its connected subnets
B. Router 2 uses router 3 as the next hop for 192.168.0.0/24
C. Router 2 uses router 1 as the next hop for 192.168.0.0/24
D. Router 2 receives a Type 7 LSAs from router 3 for its connected subnets

Answer: A

NEW QUESTION 3
DRAG DROP
Compare different features between OSPFv2 and OSPFv3. Drag and drop the descriptions of OSPF from the left onto the correct OSPF versions on the right.
Select and Place:

A. Mastered
B. Not Mastered

Answer: A

NEW QUESTION 4
For which reason can two devices fail to establish an OSPF neighbor relationship?

A. The two devices have different process IDs
B. The two devices have different network types
C. The two devices have different router IDs
D. The two devices have the same area ID

Answer: B

NEW QUESTION 5
Which statement about enabling segment routing for IGPs is true?

A. Segment routing must first be enabled under then routing process and then globally
B. Segment routing must first be enabled globally and then under the routing process
C. Segment routing can be enabled only under the routing process
D. Segment routing can be enabled only globally

Answer: B

NEW QUESTION 6

```
Router 1:

interface TenGigE0/1
    point-to-point
    address-family ipv4 unicast
        fast-reroute per-prefix
        Fast-reroute per-prefix ti-lfa

R1#show isis fast-reroute 172.16.200.9/32

L2 172.16.200.9/32 [30/115]
            via 192.168.20.1, TenGigE0/1, R2, SRGB Base: 16000, Weight: 0
            FRR backup via 192.168.30.1, TenGigE0/2, R3, SRGB Base: 16000,
Weight: 0, Metric 40
```
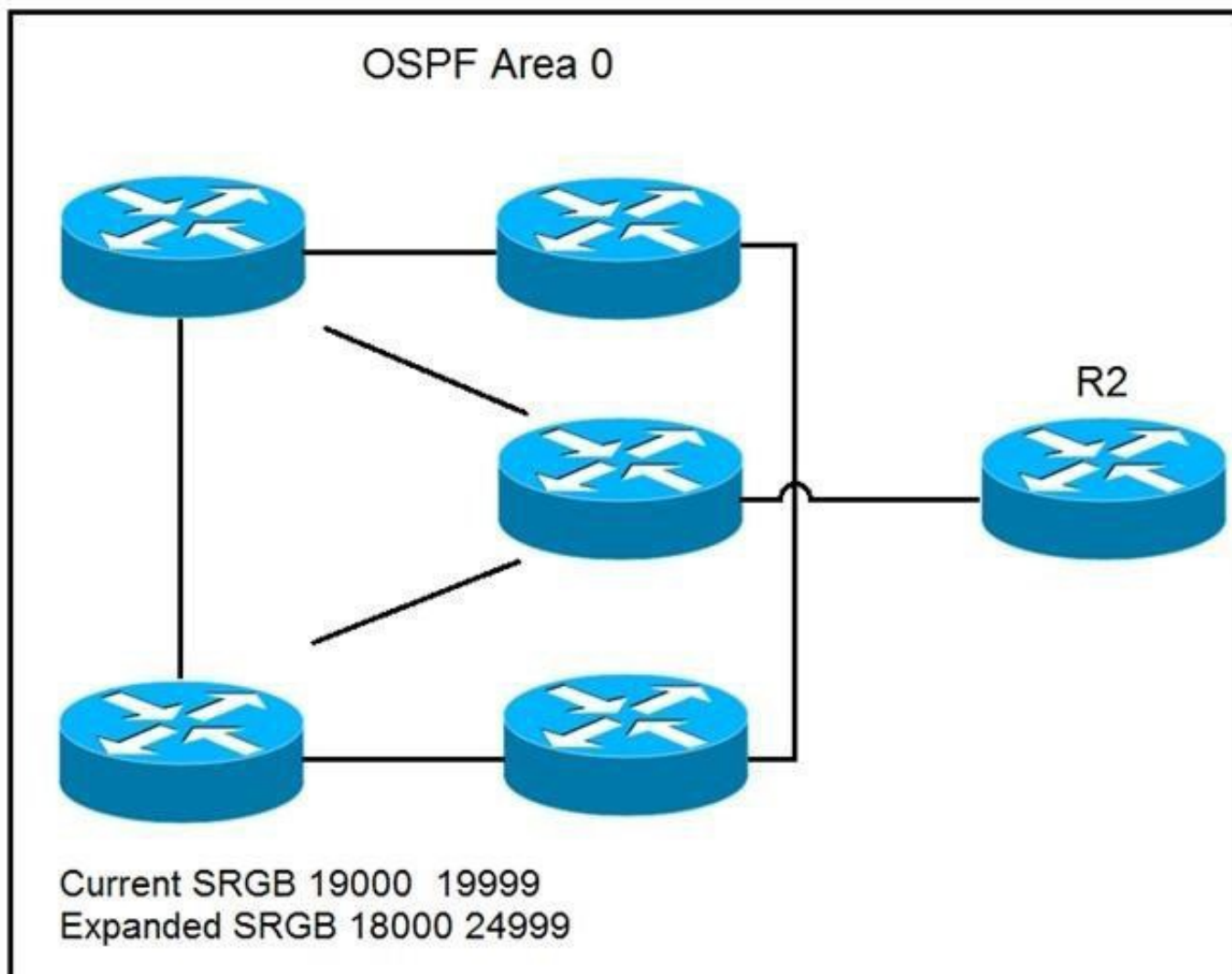
Refer to the exhibit. Router 1 is connected to router 2 on interface TenGigE0/1. Which interface provides the alternate path to 172.16.200.9/32 when the link between router 1 and router 2 goes down?

A. TenGigE0/1 interface provides the alternate path
B. A backup path must be statically installed
C. TenGigE0/2 interface provides the alternate path
D. A primary path must be manually installed

Answer: C

NEW QUESTION 7

Refer to the exhibit. A network operator wants to expand the segment routing global block in upcoming maintenance. The operator must ensure that the changes to the segment routing global block have no adverse impacts on the prefix-sid associated with the loopback0 interface used within the OSPF domain. Which command can the operator use to enforce R2 to have a strict prefix-sid assignment to loopback0? A.

A. A.

```
router ospf 1
  area 0
    interface Loopback0
      prefix-sid index 19002 explicit-null
```

B.
```
router ospf 1
  area 0
    interface Loopback0
      prefix-sid absolute 13002
```

B.
```
router ospf 1
  area 0
    interface Loopback0
      prefix-sid absolute 19002
```

C.
```
router ospf 1
  area 0
    interface Loopback0
      prefix-sid index 19002
```

Answer: C

NEW QUESTION 8
An engineer is troubleshooting a connectivity issue across the MPLS network and is verifying the forwarding behavior of packets. Which table does the engineer look at to verify the forwarding behavior of an IP packet as it enters the MPLS network at the ingress LSR?

A. LFIB
B. LIB
C. RIB
D. FIB

Answer: A

NEW QUESTION 9
Refer to the exhibit. Why is neighbor 10.1.5.5 stuck in "2WAY" state?

A. Router ID 10.1.5.5 is not reachable from R2
B. OSPF authentication has failed between R2 and 10.1.5.5
C. It is an expected behavior when OSPF network type is broadcast
D. OSPF parameters (Area ID or hello interval) are mismatched between R2 and 10.1.5.5

Answer: C

NEW QUESTION 10
After you change the IP address on an IOS XR router, you cannot ping the new address.
Which step did you forget to complete?

A. commit the configuration
B. roll back the configuration
C. merge the configuration
D. save the running configuration

Answer: A

NEW QUESTION 10

```
Router 1:

router bgp 65530
  address-family ipv4 unicast
    bgp additional-paths select all
    neighbor 192.168.1.1 additional-paths send
    neighbor 192.168.1.1 advertise additional-paths all
```

Refer to the exhibit. Which statement about this configuration is true?

A. Router 1 sends and receives multiple best paths from neighbor 192.168.1.1
B. Router 1 sends up to two paths to neighbor 192.168.1.1 for all routes
C. Router 1 receives up to two paths from neighbor 192.168.1.1 for all routes in the same AS
D. Router 1 receives only the best path from neighbor 192.168.1.1

Answer: A

NEW QUESTION 14
Which cost is the default when redistributing routes from BGP to OSPF?

A. 20
B. 1
C. infinite
D. automatic

Answer: B

NEW QUESTION 18
Refer to the exhibit. A network operator must inject a Level 1 route from XR2 (10.16.16.0/24) into the ISIS topology. Which configuration allows the injection in a way that XR3 and XR1 have a valid and working route for 10.16.16.0/24?

A. A.
```
#XR3
route-policy ISIS_PROPO
 if destination in(10.0.0.0/8 ge 8 le 22) then
  pass
 endif
end-policy
!
router isis 1
 net 49.1921.6800.0003.00
 address-family ipv4 unicast
!
propagate level 1 into level 2 route-policy ISIS_PROPO
```

B.
```
#XR2
route-policy ISIS_PROPO
 if destination in(10.0.0.0/8 ge 8 le 32) then
  pass
 endif
end-policy
!
router isis 1
 net 49.1921.6800.0003.00
 address-family ipv4 unicast
!
propagate level 2 into level 1 route-policy ISIS_PROPO
```

C.
```
#XR2
route-policy ISIS_PROPO
 if destination in(10.0.0.0/8 ge 8 le 32) then
  pass
 endif
end-policy
!
router isis 1
 net 49.1921.6800.0003.00
 address-family ipv4 unicast
!
propagate level 1 into level 2 route-policy ISIS_PROPO
```

B.
```
#XR3
route-policy ISIS_PROPO
 if destination in(10.0.0.0/8 ge 8 le 32) then
  pass
 endif
end-policy
!
router isis 1
 net 49.1921.6800.0003.00
 address-family ipv4 unicast
!
propagate level 2 into level 1 route-policy ISIS_PROPO
```

Answer: C

NEW QUESTION 19
Which two routing protocols have extensions capable of running SRv6? (Choose two.)

A. OSPF

B. BGP
C. RIP
D. IGRP
E. EIGRP

Answer: AB

NEW QUESTION 21
Refer to the exhibit. An engineer has successfully fixed BGP peering issue. R1 has an established eBGP peering with R2 and R3. Which mechanism should the engineer apply in order to steer the traffic correctly?

A. The MED attribute can be applied on R2 to influence R1 to use it as the primary path.
B. The local preference attribute can be applied on R3 to influence AS 65513 to use AS 65515 as the secondary path.
C. The weight attribute can be applied on R2 to influence AS 65513 to use AS 65515 as the primary path.
D. The IGP metric can be manipulated on R1 to allow traffic to be load balanced between R2 and R3.

Answer: D

NEW QUESTION 26
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