300-510 Q&As

Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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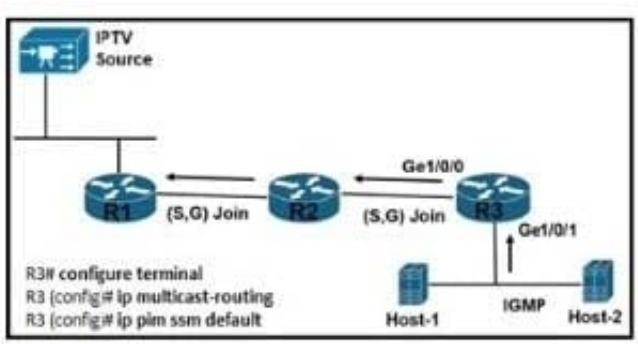
QUESTION 1

Refer to the exhibit.



A network engineer is configuring router R3 to handle multicast streams, but Host-2 cannot send subscriptions messages to the IPTV source. Which configuration must the engineer apply to router R3 so it passes the IPTV stream to Host-2?

R3# configure terminal
R3(config)# ip multicast-routing
R3(config)# interface gigabitethernet 1/0/0
R3(config-if)# ip pim sparse-mode
R3(config-if)# ip igmp version 3
R3(config)# interface gigabitethernet 1/0/1
R3(config-if)# ip pim sparse-mode
R3(config-if)# ip igmp version 3
R3(config-if)# ip pim ssm default

R3# configure terminal
R3(config)# no ip pim ssm default
R3(config)# interface gigabitethernet 1/0/0
R3(config-if)# ip pim sparse-mode
R3(config-if)# ip igmp version 3
R3(config-if)# ip pim ssm default
R3(config)# interface gigabitethernet 1/0/1
R3(config-if)# ip pim sparse-mode
R3(config-if)# ip igmp version 3
R3(config-if)# ip pim ssm default

R3(config)# interface gigabitethernet 1/0/0
R3(config-if)# ip pim sparse-mode
R3(config-if)# ip igmp version 3
R3(config)# interface gigabitethernet 1/0/1
R3(config-if)# ip pim sparse-mode
R3(config-if)# ip igmp version 3

R3(config)# interface gigabitethernet 1/0/0
R3(config-if)# ip pim sparse-mode
R3(config)# interface gigabitethernet 1/0/1
R3(config-if)# ip pim sparse-mode
R3(config-if)# ip igmp version 3

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 2

Refer to the exhibit. Which LSA type is indicated by this router output?

```
OSPF Router with ID (192.168.1.1) (Process ID 1)
Router Link States (Area 1234)
LS age: 691
Options: (No TOS-capability, DC)
LS Type: Router Links
Link State ID: 192.168.1.1
```

A. type 3 LSA

B. type 4 LSA

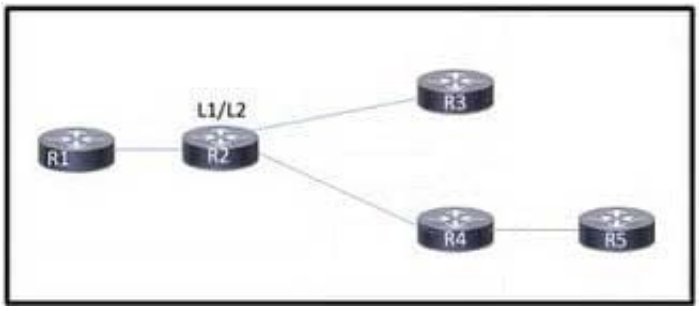
C. type 1 LSA

D. type 2 LSA

Correct Answer: C

QUESTION 3

Refer to the exhibit



Reuters R2. R3, R4 and R5 all reside in the same area, with R1 in a different area R3 is overutilized and the engineer wants to reduce its CPU load

The engineer configured router R4 to summarize routes that it receives from R5. but R3 is still receiving all of the R5 routes.

Which action resolves the issue?

A. Configure R3 in a new area

B. Configure R2 as a Level 1 router

C. Configure the summary routes on R5

D. Configure R4 as a Level I-Level 2 router

Correct Answer: A

QUESTION 4

What is the characteristic of enabling segment routing for IGPs?

A. Segment routing must first be enabled under the routing process and then globally.

B. Segment routing must first be enabled globally and then under the routing process.

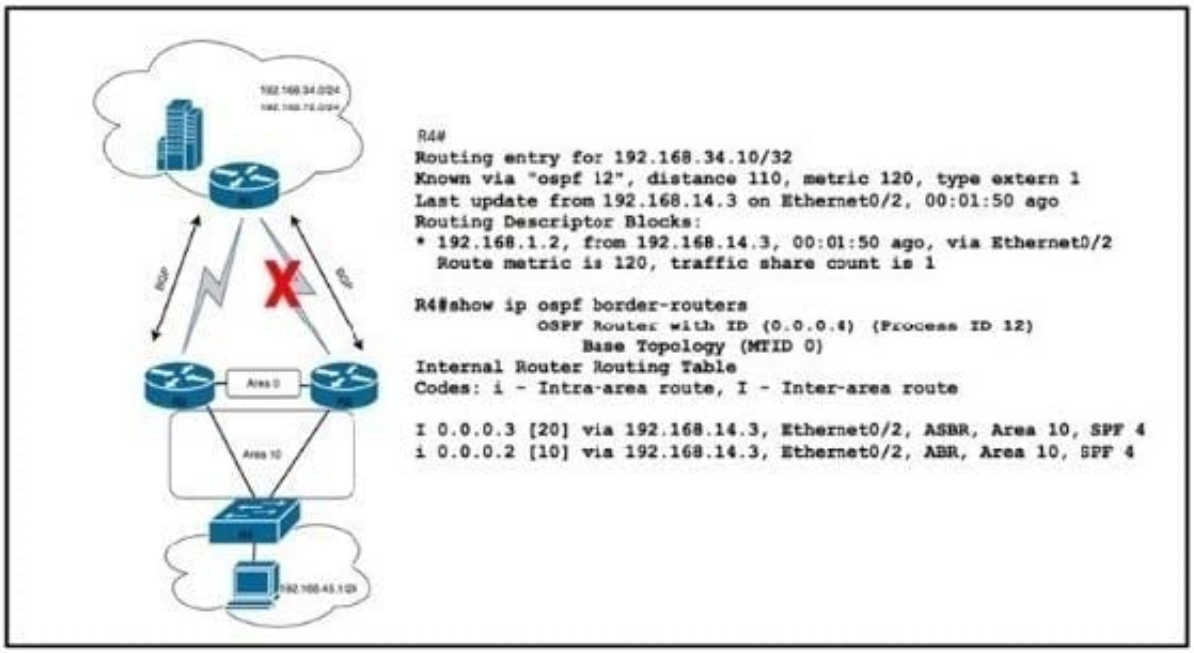
C. Segment routing must be enabled only globally.

D. Segment routing must be enabled only under the routing process.

Correct Answer: B

QUESTION 5

Refer to the exhibit.



After a recent network implementation project, customer A is performing stress testing to verify network redundancy at the branch office connected to R4.

When the link from R2 is shut down as shown, the SLA tracking object fails and the cost of the link between R2 and R4 increases to 100. However, a traceroute operation from a PC in the Branch office shows that traffic to HQ is still routed via

R2.

Which solution corrects the problem and optimizes traffic flow via R3 without creating operational overhead?

A. Configure two OSPF processes on R2 and R3 and redistribute traffic between them.

B. Redistribute routes from BGP to OSPF as type El.

C. Use multiarea adjacency to extend Area 10 to the link between R2 and R3.

D. Create a virtual channel from R3 to R4.

Correct Answer: B