300-510 Q&As

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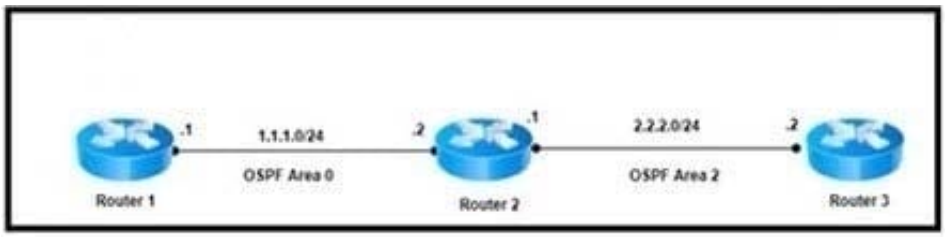
QUESTION 1

Refer to the exhibit



A network engineer installed a new router (router 3) at the regional hub running MPLS services for scalability Router 3 is connected to the 10.44 4.0/24. 10.44 5.0/24. 10 44.6.0/24. and 10 44.7.0/24 subnets

The new router has been configured for OSPF area 2. and it is advertising the four connected networks.

The engineer noticed that the same networks are listed as interarea summary routes, and they are being flooded into each area on the area borders

Which action resolves the issue?

A. On router 3, configure an access list to filter the networks.

B. On router 2, configure a route map to filter the networks.

C. Under the OSPF configuration on router 3. add area 2 range 10.44.4.0 255.255.252.0.

D. Under the OSPF configuration on router 2, add area 2 range 10.44.4.0 255.255.252.0.

Correct Answer: D

QUESTION 2

Refer to the exhibit.

```
RP/0/0/CPU0:XR1#show run

route-policy AGGRO
  if destination in (10.0.0.0/8 ge 8 le 25) then
    set community (10:825)
  endif
  if destination in (10.2.0.0/24) then
    drop
  endif
  if destination in (10.1.0.0/24) then
    suppress-route
  endif
end-policy
!
!
router bgp 1
  bgp router-id 192.168.0.7
  address-family ipv4 unicast
    aggregate-address 10.0.0.0/8 route-policy AGGRO

RP/0/0/CPU0:XR1#
```

A network operator is working to filter routes from being advertised that are covered under an aggregate announcement. The receiving router of the aggregate announcement block is still getting some of the more specific routes plus the aggregate.

Which configuration change ensures that only the aggregate is announced now and in the future if other networks are to be added?

A. Configure the summary-only keyword on the aggregate command

B. Set each specific route in the AGGRO policy to drop instead of suppress-route

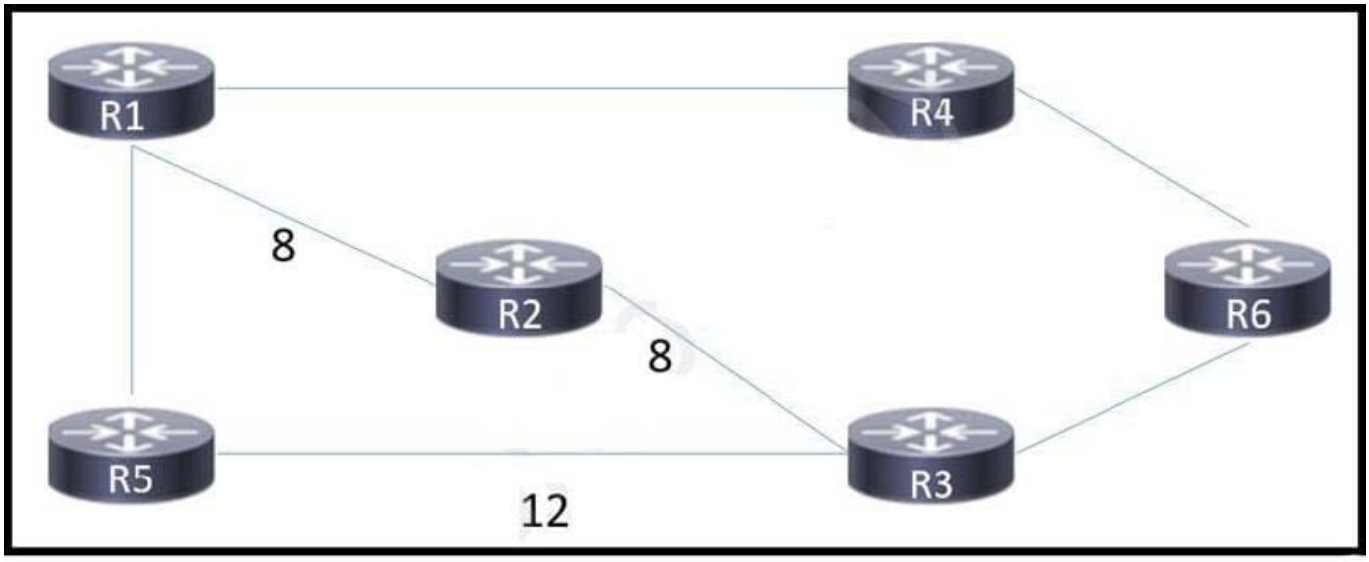
C. Filter the routes on the receiving router

D. Set each specific route in the AGGRO policy to remove instead of suppress-route

Correct Answer: A

QUESTION 3

Refer to the exhibit.



A network engineer configured routers R1 and R5 to run in IS-IS Level 1 mode and router R6 to run in IS-IS Level 2 mode. All other routers are running as Level 1 / Level 2 routers. An engineer expects traffic from R1 to R6 to pass via R2, but IS-IS routing has calculated the best path via R4. Which action corrects the problem?

A. Configure all routers as Level 1 routers.

B. Remove the link metric for the link from router R1 to router R2.

C. Change the link metric for the link from router R1 to router R2 to 1.

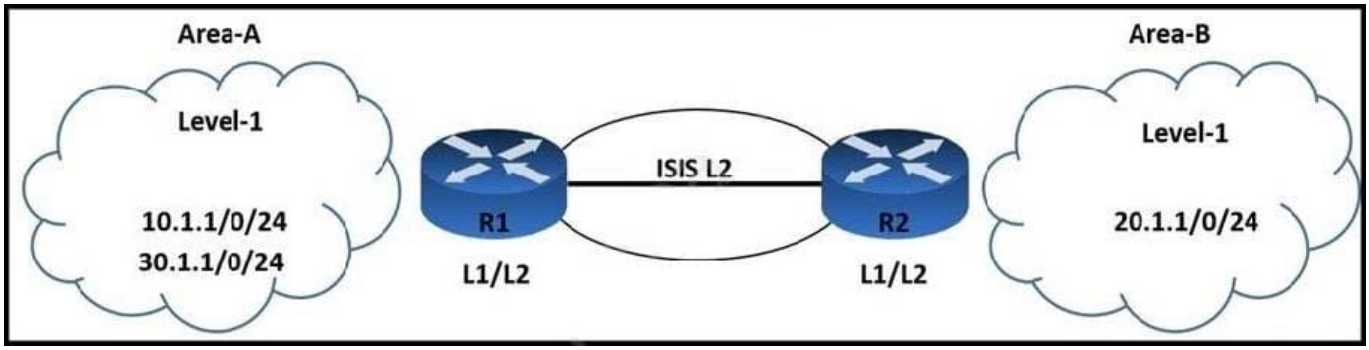
D. Configure all routers as Level 1 / Level 2 routers.

Correct Answer: C

The default link metric for IS-IS is 10, so changing the link from R1 to R2 to 1 will change the overall metric to R6 to 9 (8+1).

QUESTION 4

Refer to the exhibit.



An engineer is troubleshooting IS-IS configuration between two areas. IS-IS Area-A network 30.1.1.0/24 is leaked into IS-IS Area-. R2 is failing to filter the route updates from network 10.1.1.0/24. Which configuration must the engineer apply to resolve the issue?

A. R2(config)# ip prefix-list List2 seq 5 deny 10.1.1.0/24 R2(config)# interface fastethernet 0/0 R2(config-if)# ip router isis 100 R2(config-if)# router isis 100 R2(config-router)# distribute-list gateway List2 in

B. R2(config)# ip prefix-list List1 seq 3 deny 10.1.1.0/24 R2(config)# ip prefix-list List1 seq 5 permit 30.1.1.0/24 ge 25 1e R2(config)# ip prefix-list List1 seq 10 permit 0.0.0.0/le 32 R2(config)# interface fastethernet 0/0 R2(config-if)# ip router isis 122 R2(config-if)# router isis 122 R2(config-router)# distribute-list prefix List1 in

C. R1(config)# ip prefix-list List2 seq 5 deny 10.1.1.0/24 R1(config)# interface fastethernet 0/0 R1(config-if)# ip router isis 100 R1(config-if)# router isis 100 R1(config-router)# distribute-list gateway List2 in R (config-if)# router isis 150 R1(config-router)# distribute-list route-map Map1 in

D. R2(config)# access-list 101 deny ip any 10.1.1.0 0.0.0.127 R2(config)# access-list 101 permit ip any 30.1.1.0 0.0.0.63 R2(config)# access-list 101 deny ip any 0.0.0.0 0.0.0.0 R2(config)# interface fastethernet 0/0 R2(config-if)# ip router isis 121 R2(config-if)# router isis 121 R2(config-router)# distribute-list 101 in

Correct Answer: C

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_isis/configuration/15-mt/irs-15-mt-book/isis-inbound-filtering.html

QUESTION 5

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