300-510^{Q&As}

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QUESTION 1

An engineer warns to map a multicast IP address to a multicast MAC How many bits are used to make the conversion?

A. high-order 24 bits

B. higher-order 23 bits

C. low order 23 bits

D. lower-order 24 bits

Correct Answer: C

QUESTION 2

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 (8 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.
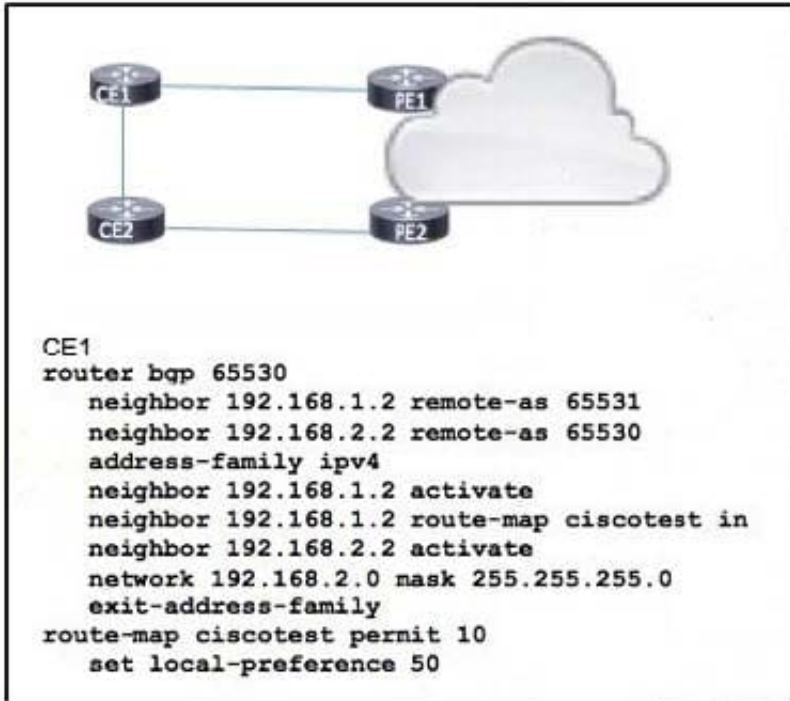
Which action corrects the problem?

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 3

Refer to the exhibit.


```
CE1
router bqp 65530
    neighbor 192.168.1.2 remote-as 65531
    neighbor 192.168.2.2 remote-as 65530
    address-family ipv4
    neighbor 192.168.1.2 activate
    neighbor 192.168.1.2 route-map ciscotest in
    neighbor 192.168.2.2 activate
    network 192.168.2.0 mask 255.255.255.0
    exit-address-family
route-map ciscotest permit 10
    set local-preference 50
```

Routers CE1 and CE2 are in AS 65530. which is multihomed for Internet access.

An engineer expects inbound traffic to AS 65530 to arrive from PE1. but it is coming from PE2 instead PE1 and PE2 routers are connected with CE routers through the same bandwidth
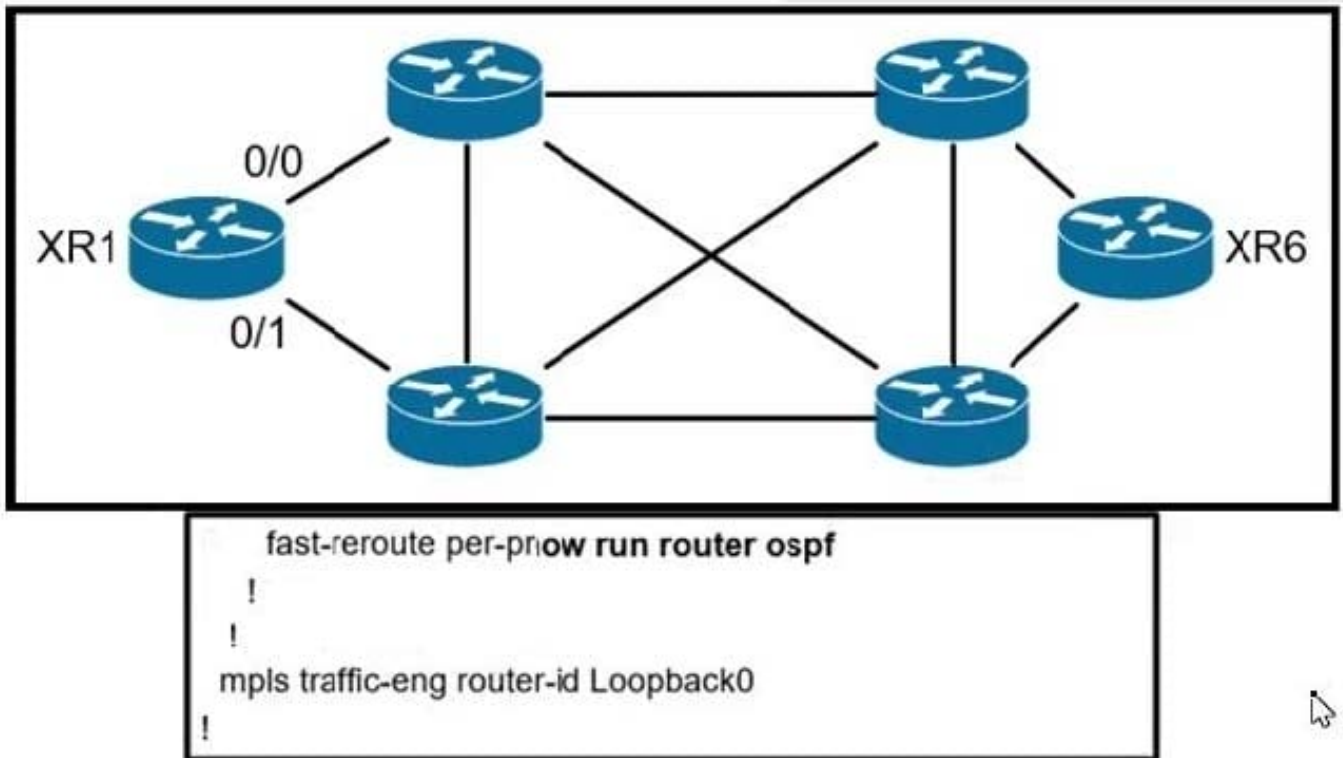
Which action must be taken to correct the problem?

A. On router CE2, configure inbound routes from PE2 to CE2 with a local-preference value of 50 or greater.

B. Configure router CEI to prepend the AS path to routes it receives from PE 1.

C. Set the local-preference value on router CEI to 100 or greater

D. On router PEI , change the origin for routes that are redistributed from CEI to CE2.

Correct Answer: C

QUESTION 4

Refer to the exhibits.

```
        fast-reroute per-prow run router ospf
    !
    !
mpls traffic-eng router-id Loopback0
    !
```

All links inside the network are configured at a default cost of one inside the fully converged OSPF domain. Given the configuration from XR1, which interface does traffic from XR1 that is destined to the loopback interface of XR6 select for the exiting interface?

A. Interface GigabitElhemet 0/0. The tie breaker of the node index priority is lower and trumps the path cost.

B. Interface GigabitEthernet 0/1. The tie breaker of the path cost being lower. The node index priority does not impact this selection process.

C. Interface GigabitEthernet 0/1. The tie breaker of the node index priority is lower and trumps the path cost.

D. Interface GigabitEthernet 0/0. The tier breaker of the path cost being lower. The node index priority does not impact this selection process.

Correct Answer: A

QUESTION 5

An ISP has an MPLS VPN-based network with 12 PE routers.

How many peerings are required between the 12 routers if the engineer has not configured route reflectors?

A. 60

B. 66

C. 78

D. 84

Correct Answer: B

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