300-510$^{Q\&As}$

Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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QUESTION 1

Refer to the exhibit.

```
PE1#sh run | sec router bgp
router bgp 65000
 no synchronization
 bgp log-neighbor-changes
 network 10.1.0.0 mask 255.255.255.0
 neighbor 4.4.4.4 remote-as 65000
 neighbor 4.4.4.4 update-source Loopback0
 no auto-summary

PE2#sh run | sec router bgp
router bgp 65000
 no synchronization
 bgp log-neighbor-changes
 network 10.2.0.0 mask 255.255.255.0
 neighbor 1.1.1.1 remote-as 65000
 neighbor 1.1.1.1 update-source Loopback0
 no auto-summary

PE1#sh ip cef exact-route 10.1.0.1 10.2.0.1
10.1.0.1 -> 10.2.0.1 : FastEthernet0/0 (next hop 172.16.0.2)
```


Network connectivity between bank A and bank B has been lost Users at bank A and bank B are able to successfully reach their directly connected PE routers.

All routers in OSPF area 0 are correctly advertising and learning routing updates.

Which action resolves the issue?

A. Enable next-hop-self under the iBGP peering configuration on routers PEI and PE2

B. Configure the P routers to redtstnbute BGP routes within OSPF area 0.

C. Configure router PI to advertise the IP prefix of PEI.

D. Configure MPLS with an end-to-end label-switched path on each router.

Correct Answer: D

QUESTION 2

When deploying a nationwide network of routers, what is the benefit of using BGP confederations?

A. availability

B. scalability

C. security

D. automatability

Correct Answer: B

Reference: https://www.routerfreak.com/bgp-network-design-bgp-confederation/

QUESTION 3

Which feature is used in multicast routing to prevent loops?

A. STP

B. inverse ARP

C. RPF

D. split horizon

Correct Answer: C

QUESTION 4

Refer to the exhibit.

```
R1#sh ip route
Codes: C - connected, S - static, R- RIP, M - mobile, B - BGP
 D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
 N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
 E1 - OSPF external type 1, E2 - OSPF external type 2
 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
 ia - IS-IS inter area, * - candidate default, U - per-user
static route o - ODR, P - periodic downloaded static route
Gateway of last resort is not set
1.0.0.0/32 is subnetted, 1 subnets
C 1.1.1.1 is directly connected, Loopback0
 2.0.0.0/32 is subnetted, 1 subnets
O 2.2.2.2 [110/11] via 10.0.0.2, 01:38:48, FastEthernet 0/0
 3.0.0.0/32 is subnetted, 1 subnets
O 3.3.3.3 [110/21] via 10.0.0.2, 01:02:29, FastEthernet 0/0
 10.0.0.0/24 is subnetted, 2 subnets
C 10.0.0.0 is directly connected, FastEthernet 0/0
O 10.0.1.0 [110/20] via 10.0.0.2, 01:02:39, FastEthernet 0/0
R1#sh ip bgp vpnv4 vrf RED
BGP table version is 9, local router ID is 1.1.1.1
Status codes: s suppressed, d damped, h history, * valid,
 > best, r RIB-failure, S Stale Origin codes: i - IGP, e - EGP, ? - incomplete
 Network Next Hop Metric LocPrf Weight Path Route Distinguisher: 4:4 (default for vrf RED)
*>i5.5.5.5/32 3.3.3.3 11 100 0 ?
*>i192.168.2.0 3.3.3.3 0 100 0 ?
R4#sh ip route
4.0.0.0/32 is subnetted, 1 subnets
C 4.4.4.4 is directly connected, Loopback0
C 192.168.1.0/24 is directly connected, FastEthernet 0/
```
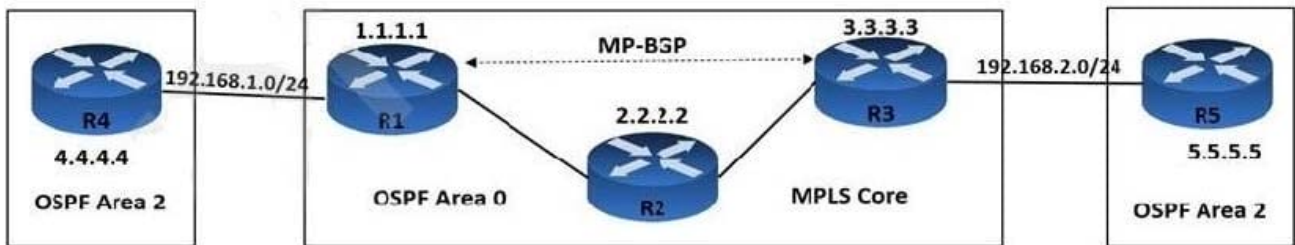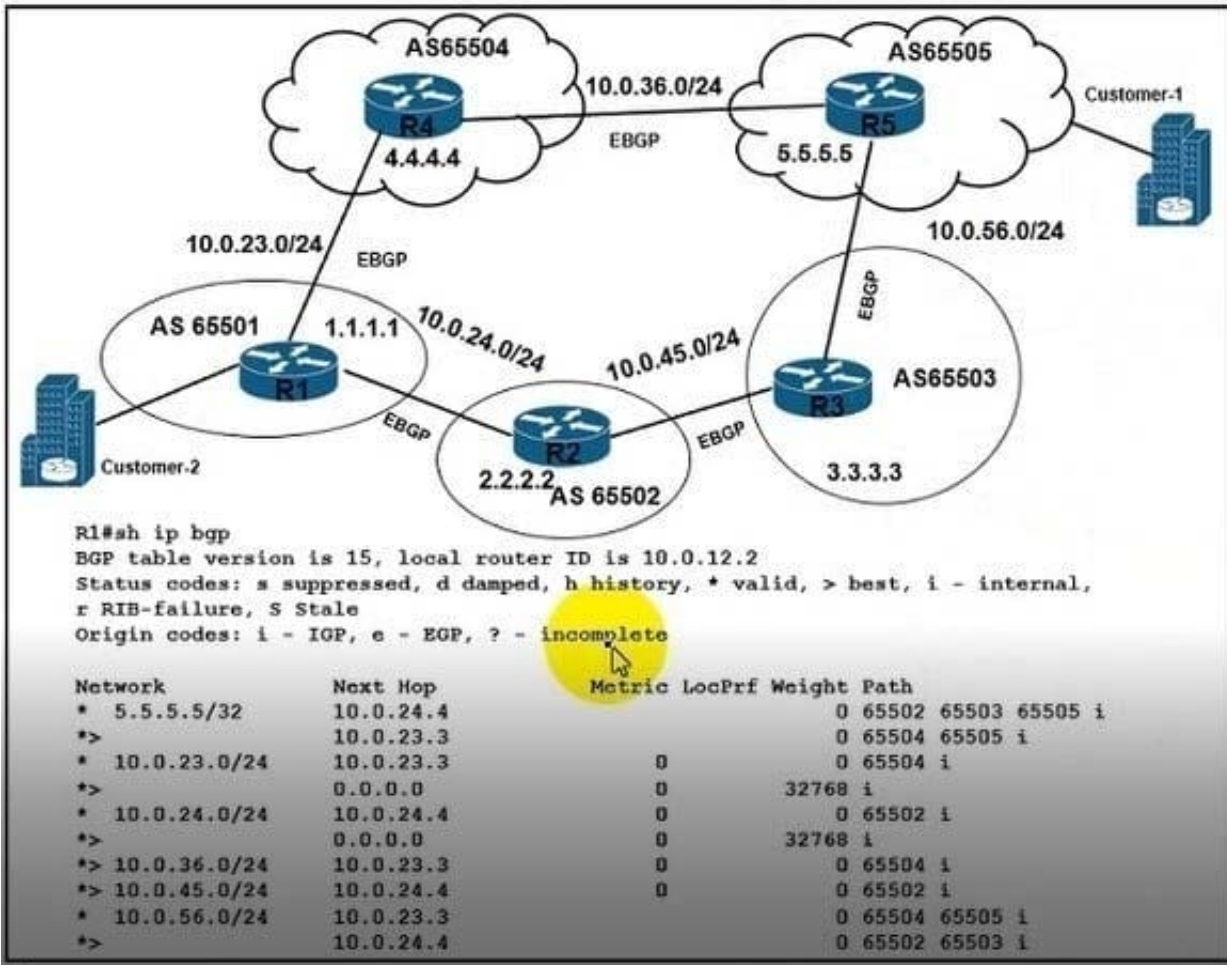

An engineer is troubleshooting connectivity issues on the MPLS core network. A customer connected through R4 cannot reach the OSPF domain on R5. While checking the routing table of R1, the engineer cannot see all the routes from R3 and R5. Which task must the engineer perform so that R4 is able to reach R5?

A. Enable OSPF peering and configure route redistribution between routers R4 and R1.

B. Enable route filtering between routers R1 and R3.

C. Enable MP-BGP peering on routers R1, R3, R4, and R5.

D. Enable OSPF on the Area-0 routers and configure MP-BGP between routers R1 and R3.

Correct Answer: C

QUESTION 5

Refer to the exhibit There is a BGP traffic path issue between Customer-1 and Customer-2 Users from Customer-2 have reported file transfer issues High utilization on the path between both customers causes many packet drops. Which configuration resolves the issue?


```
R1#sh ip bgp
BGP table version is 15, local router ID is 10.0.12.2
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

Network           Next Hop        Metric LocPrf Weight Path
*  5.5.5.5/32     10.0.24.4                        0 65502 65503 65505 i
*>                10.0.23.3                        0 65504 65505 i
*  10.0.23.0/24   10.0.23.3            0            0 65504 i
*>                0.0.0.0              0        32768 i
*  10.0.24.0/24   10.0.24.4            0            0 65502 i
*>                0.0.0.0              0        32768 i
*> 10.0.36.0/24   10.0.23.3            0            0 65504 i
*> 10.0.45.0/24   10.0.24.4            0            0 65502 i
*  10.0.56.0/24   10.0.23.3                        0 65504 65505 i
*>                10.0.24.4                        0 65502 65503 i
```

○ R1#neighbor 10.0.24.4 route-map LOCAL-PREF-150 in
  route-map LOCAL-PREF-150
  set local-preference 150
  ip prefix-list 5-5-5-5 seq 5 permit 5.5.5.5/32
  route-map LOCAL-PREF-150 permit 10
    match ip address prefix-list 5-5-5-5
    set local-preference 150

○ R4#router bgp 65504
  neighbor 10.0.23.3 remote-as 65501
  neighbor 10.0.23.3 filter-list 1 out
  ip as-path access-list 1 deny ^65505$
  ip as-path access-list 1 permit .*

○ R4#router bgp 65504
    address-family ipv4 unicast
    neighbor 10.0.23.3 remote-as 65501
    neighbor 10.0.23.3 activate
    neighbor 10.0.23.3 route-map PREPEND in
    exit-address-family
  exit
  route-map PREPEND permit 10
  set as-path prepend 65506 65507

○ R1#neighbor 10.0.23.3 route-map LOCAL-PREF-150 out
  route-map LOCAL-PREF-150
  set local-preference 150

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

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