



**Free Questions for 300-510 by certsinside**

**Shared by Marsh on 15-04-2024**

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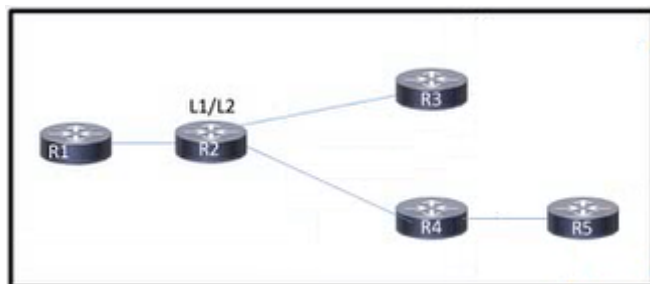
# Question 1

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Question Type: MultipleChoice

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Refer to the exhibit.



Refer to the exhibit Routers 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?

## Options:

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- 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

Answer:

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A

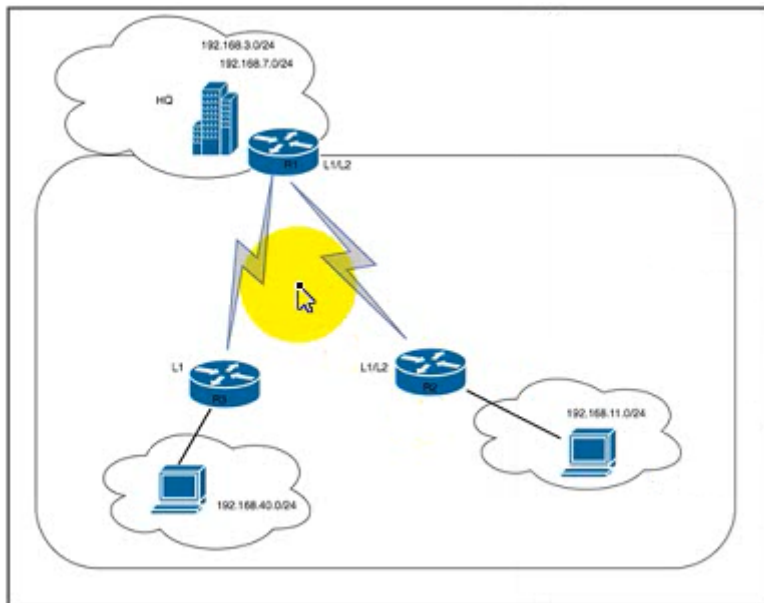
## Question 2

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Question Type: MultipleChoice

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Refer to the exhibit.



Refer to the exhibit The branch office in area 10 is connected to HQ via Frame Relay uplinks with bandwidth constraints After a recent implementation of QoS on the R2 and R3 networks the system has been logging %SYS-2-MALLOCFAIL: Memory allocation of 65536 bytes failed from 0x224E321, alignment 0 messages To reduce traffic load and memory utilization on R2 and R3 the network engineer configured R1 to announce only one user subnet per location by issuing the summary address 192.168.0.0 255.255.248.0 command on R1 However, the engineer noticed that router R2 still has two routes and a summary address from HQ and R3 also has two routes from HQ Which two actions must the engineer take on R1 to fix the issue so that only one route is announced' (Choose two.)

### Options:

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- A- Configure the subnet range with the network command under the IS-IS process.
- B- Configure R1 as a Level 1 device.
- C- Redistribute both routes into the ISIS process.
- D- Configure a summary route for Level 1-Level 2 devices.
- E- Configure a summary route for Level 1 devices.

### Answer:

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D, E

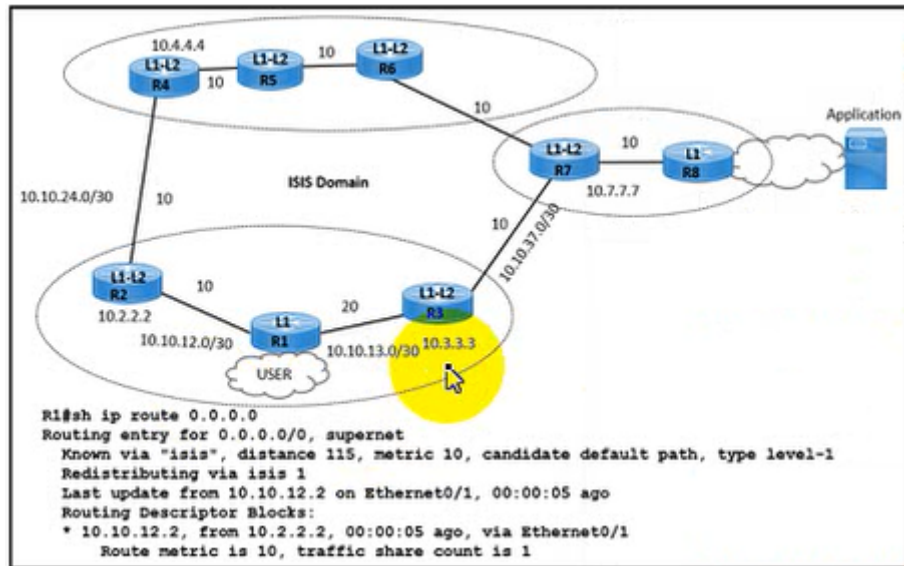
## Question 3

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Question Type: MultipleChoice

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Refer to the exhibit.



Refer to the exhibit An engineer is troubleshooting a networking issue with several symptoms

The shortest path from router R1 to R8 is underused and the longest path is overused

Traffic from 10.1.1 1 to 10 8 8 8 is routed on the longest path

Traffic between the R1 and the application server is experiencing packet drops and latency problems.

Which action resolves the issue?

**Options:**

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- A-** Configure route leaking for the IP address Of the application server on router R1.
- B-** Increase the R1 to R2 link metric to 20.
- C-** Configure a Level 2 IS-IS domain on router R1.
- D-** Block the advertisement of the application server IP address to router R6.

**Answer:**

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C

## Question 4

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**Question Type:** MultipleChoice

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How does SRv6 function on the control plane?

**Options:**

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- A-** It enables SRH-capable nodes to terminate IPv6 packets at the network egress to carry the SRv6 locator.
- B-** The Ingress node of the SR domain adds a uSID format IPv6 header to carry the SRv6 locator.
- C-** The ingress node of the SR domain swaps the SRv6 header for the IPv6 header

D- The egress node of SR domain imposes a new outer header

**Answer:**

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B

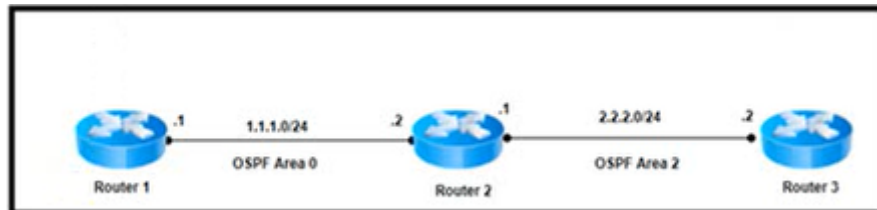
## Question 5

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**Question Type:** MultipleChoice

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Refer to the exhibit.



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?

### Options:

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- 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.

### Answer:

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D

## Question 6

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**Question Type:** MultipleChoice

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Refer to the exhibit.



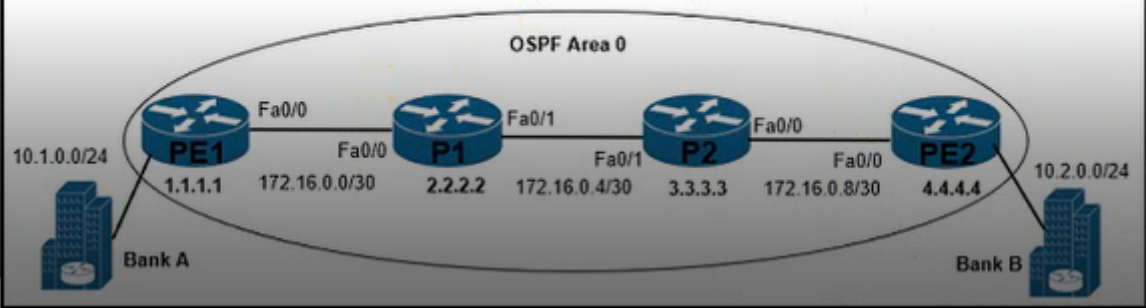
```

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)

```



Refer to the exhibit. 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?

**Options:**

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- A- Enable next-hop-self under the iBGP peering configuration on routers PE1 and PE2
- B- Configure the P routers to redistribute BGP routes within OSPF area 0.
- C- Configure router P1 to advertise the IP prefix of PE1.
- D- Configure MPLS with an end-to-end label-switched path on each router.

**Answer:**

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D

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