300-510^{Q&As}

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Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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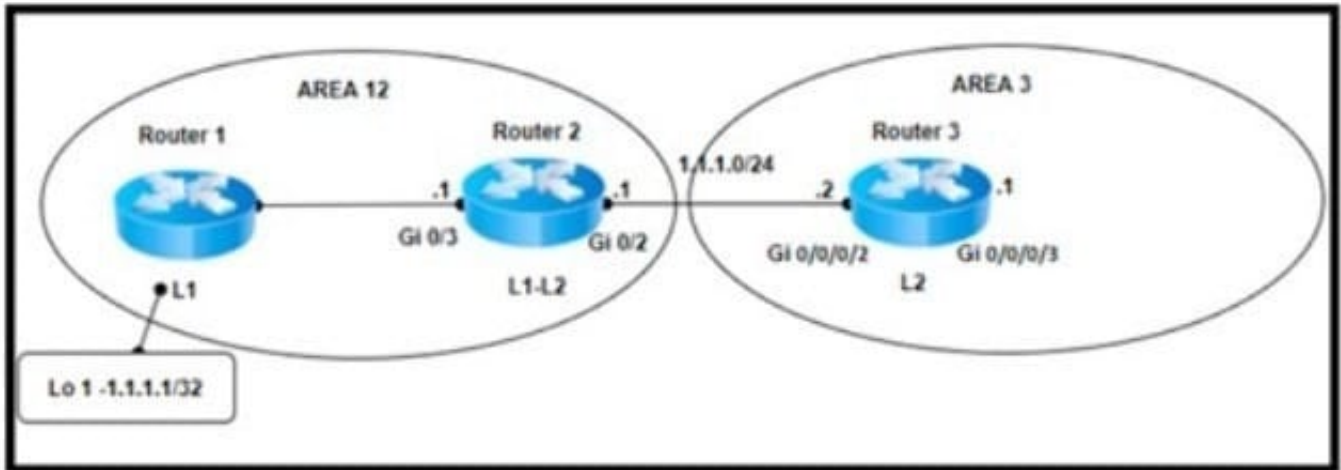Following Questions and Answers are all new published by Cisco Official Exam Center

QUESTION 1

Refer to the exhibit.

A network engineer configured three new PE routers to expand the network.

The new routers run in the IS-IS routing protocol and reside in the data center in the same exchange as the existing routers. However, the network is now experiencing suboptimal routing.

The Layer 2 configuration and VLANs are configured correctly to provide segregation between networks, but the Level 1 routes are not being converted to Level 2 routes.

Which action resolves the issue?

A. On Router 1, redistribute the routes into IGP.

B. On Router 1, summarize internal routes between areas.

C. On Router 2, redistribute the routes into IGP.

D. On Router 2. summarize internal routes between areas.

Correct Answer: D

QUESTION 2

DRAG DROP

An engineer is troubleshooting end-to-end customer traffic across an MPLS VPN service provider network.

Which tasks should the engineer use to solve the routing issues?

Drag and drop the table types from the left onto the most useful troubleshooting tasks/router types on the right. (Not all options are used.)

Select and Place:

LFIB	on the CE router to check for routing errors
LIB	on the P router to see LDP functionality
RIB	on PE and P router to verify expected forwarding
FIB	on VRF of the PE-CE connection
adjacency table	

Correct Answer:

	RIB
	LIB
	LFIB
FIB	adjacency table

QUESTION 3

Which two methods represent IPv6 tunneling implementations? (Choose two.)

A. IPv6 over GRE tunneling

B. manually configured tunnels

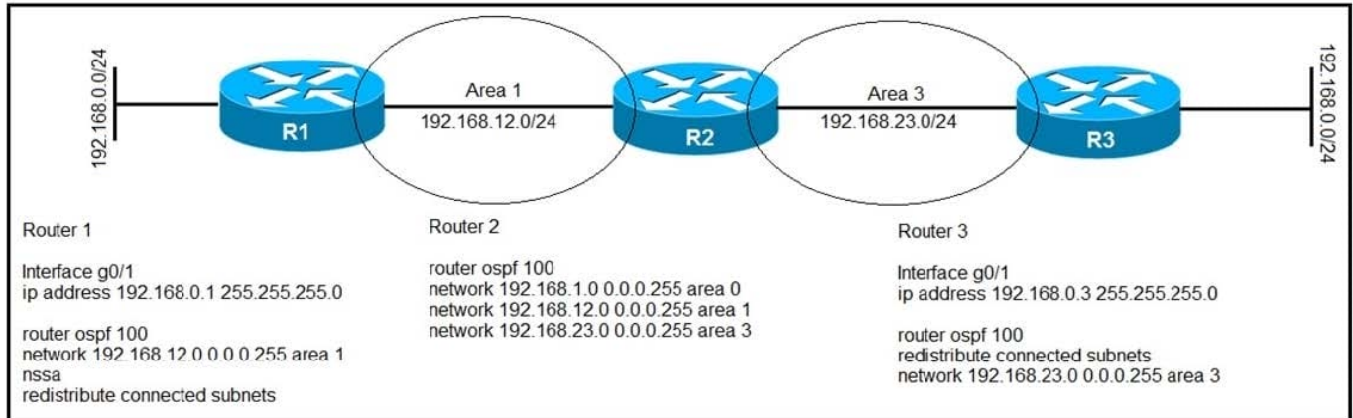C. automatic tunnels

D. 6to4 tunneling

E. IPv6 over an IPv4 tunnel over MPLS

Correct Answer: BC

QUESTION 4

Refer to the exhibit.

After troubleshooting an OSPF adjacency issue, routers 1, 2, and 3 have formed OSPF neighbor relationships. Which statement about the configuration is true?

A. Router 2 receives a Type 5 LSAs from router 1 for its connected subnets

B. Router 2 uses router 3 as the next hop for 192.168.0.0/24

C. Router 2 uses router 1 as the next hop for 192.168.0.0/24

D. Router 2 receives a Type 7 LSAs from router 3 for its connected subnets

Correct Answer: C

From IOS 15.1(2)S onwards, Cisco uses the OSPF path selection order is O > O IA > N1 > E1 > N2 > E2
https://www.cisco.com/c/en/us/support/docs/ip/open-shortest- path-first-ospf/212608-ospf-external-path-selection-external-t.html

QUESTION 5

Refer to the exhibit.

```
Router 1:

interface TenGigE0/1
    point-to-point
    address-family ipv4 unicast
        fast-reroute per-prefix
        Fast-reroute per-prefix ti-lfa

R1#show isis fast-reroute 172.16.200.9/32

L2 172.16.200.9/32 [30/115]
            via 192.168.20.1, TenGigE0/1, R2, SRGB Base: 16000, Weight: 0
            FRR backup via 192.168.30.1, TenGigE0/2, R3, SRGB Base: 16000,
Weight: 0, Metric 40
```

Router 1 is connected to router 2 on interface TenGigE0/1.

Which interface provides the alternate path to 172.16.200.9/32 when the link between router 1 and router 2 goes down?

A. TenGigE0/1 interface provides the alternate path

B. A backup path must be statically installed

C. TenGigE0/2 interface provides the alternate path

D. A primary path must be manually installed

Correct Answer: C

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