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QUESTION 1

Which statement about spanning-tree root-bridge election is true?

- A. Every root bridge must reside on the same root switch.
- B. It is always performed automatically.
- C. Every VLAN must use the same root bridge.
- D. Each VLAN must have its own root bridge.

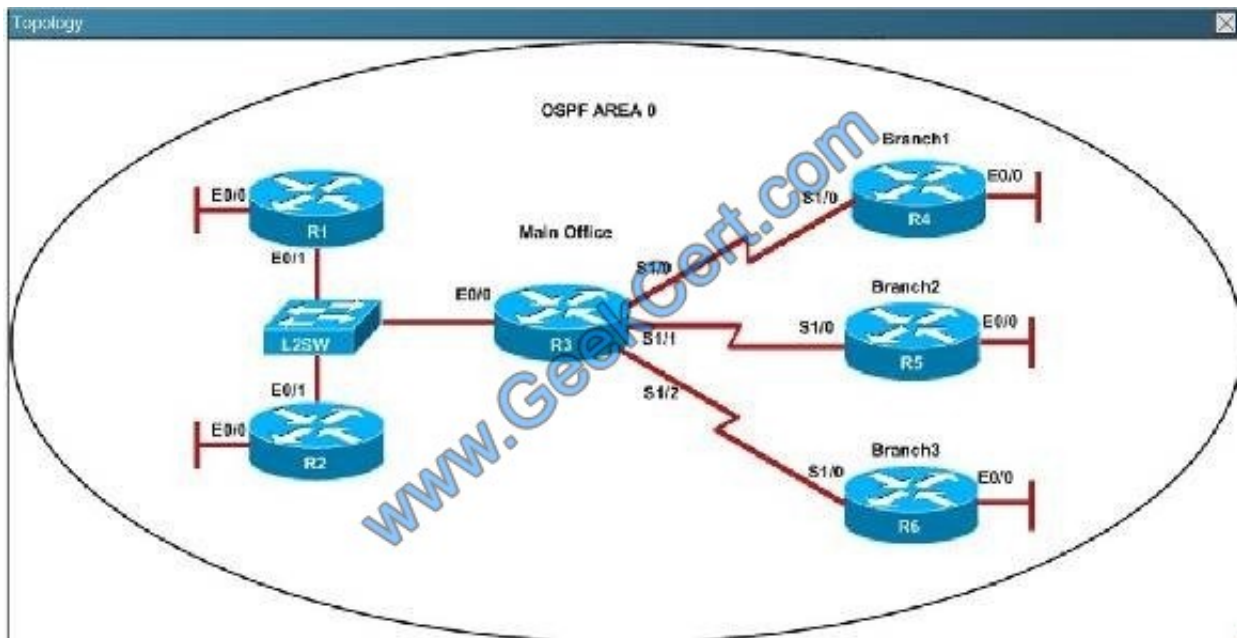
Correct Answer: B

QUESTION 2

Scenario:

Refer to the topology. Your company has decided to connect the main office with three other remote branch offices using point-to-point serial links.

You are required to troubleshoot and resolve OSPF neighbor adjacency issues between the main office and the routers located in the remote branch offices.



An OSPF neighbor adjacency is not formed between R3 in the main office and R4 in the Branch1 office. What is causing the problem?

- A. There is an area ID mismatch.
- B. There is a Layer 2 issue; an encapsulation mismatch on serial links.



C. There is an OSPF hello and dead interval mismatch.

D. The R3 router ID is configured on R4.

Correct Answer: A

A show running-config command on R3 and R4 shows that R4 is incorrectly configured for area 2:

R3	R4
<pre>no ip address shutdown ! interface Ethernet0/2 no ip address shutdown ! interface Ethernet0/3 no ip address shutdown ! interface Serial1/0 description ***Connected to R4-Branch1 office*** ip address 10.10.240.1 255.255.255.252 encapsulation ppp ip ospf 3 area 0 serial restart-delay 0 ! interface Serial1/1 description ***Connected to R5-Branch2 office*** ip address 10.10.240.5 255.255.255.252 encapsulation ppp ip ospf hello-interval 50 ip ospf 3 area 0 ppp authentication chap</pre>	<pre>! interface Ethernet0/2 no ip address shutdown ! interface Ethernet0/3 no ip address shutdown ! interface Serial1/0 description ***Connected to R3-Main Branch office*** ip address 10.10.240.2 255.255.255.252 encapsulation ppp ip ospf 4 area 2 serial restart-delay 0 ! interface Serial1/1 no ip address shutdown serial restart-delay 0 ! interface Serial1/2 no ip address shutdown --- More (37) ---</pre>

QUESTION 3

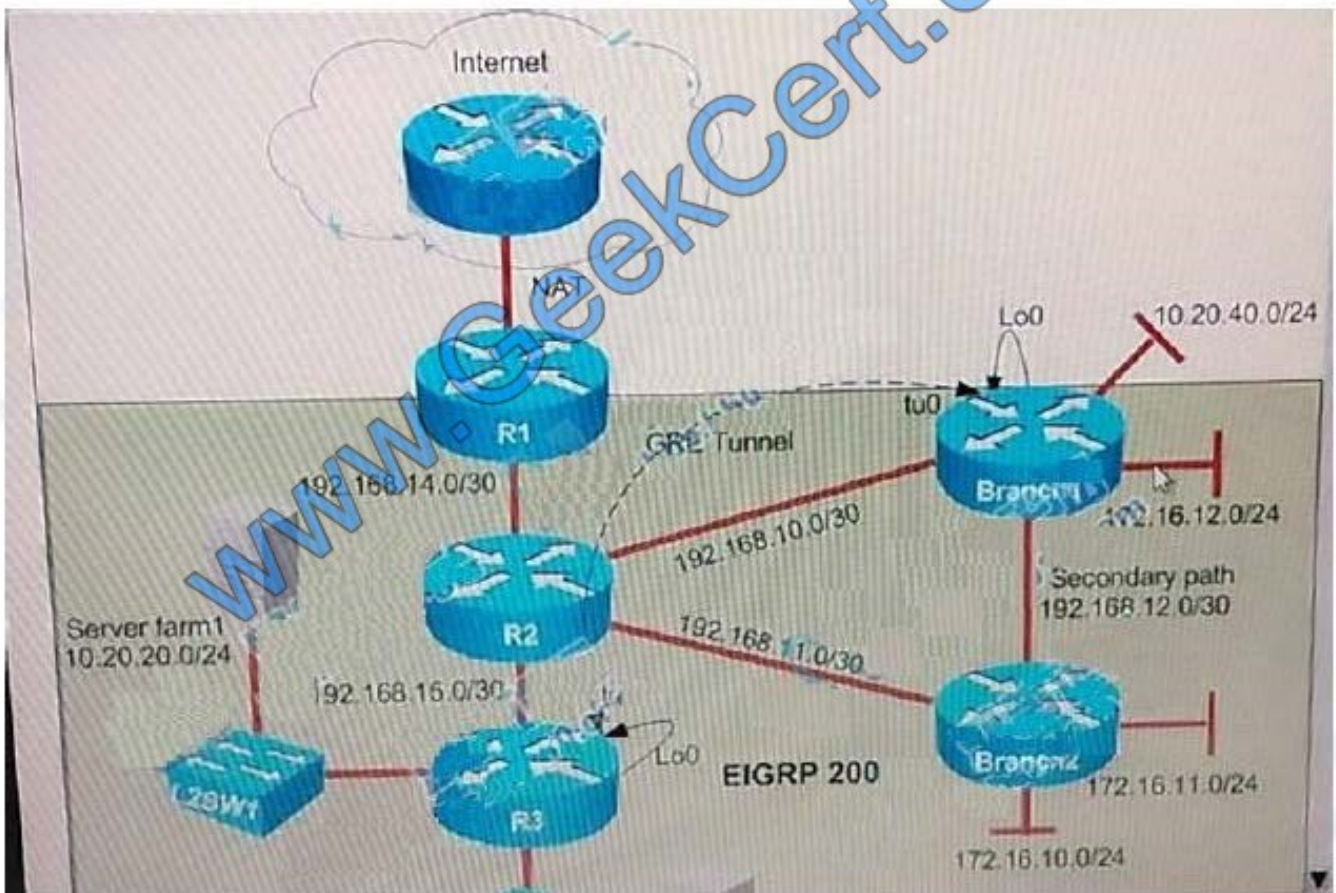


You are implementing EIGRP between the main office and branch offices. In Phase 1, you must implement and verify EIGRP configurations as mentioned in the topology. In Phase 2, your colleague is expected to do NAT and ISP configurations.

Identify the issues that you are encountering during Phase 1 EIGRP implementation.

- Router R1 connects the main office to the Internet and routers R2 and R3 are internal routers.
- Routers Branch1 and Branch2 connect to router R2 in the main office.
- Users from the Branch1 LAN network 10.20.40.0/24 are expected to perform testing of the application that is hosted on the servers in Server farm1, before servers are available for production.
- The GRE tunnel is configured between R3 and Branch1, and traffic between server farm1 and Branch1 LAN network 10.20.40.0/24 is routed through the GRE tunnel using static routes.
- The link between Branch1 and Branch2 is used as a secondary path in the event of failure of the primary path to main office.

You have console access on R1, R2, R3, Branch1, and Branch2 devices. Use only show commands to troubleshoot the issues.



You are verifying the EIGRP configurations in the topology. Which statement is true?

- A. Branch2 Lan network 172.16.11.0/24 is not advertised into the EIGRP network.
- B. Branch2 Lan network 172.16.10.0/24 is not advertised into the EIGRP network.
- C. R3 server farm2 network 10.20.30.0/24 is not advertised into the EIGRP network.
- D. Branch1 Lan network 172.16.12.0/24 is not advertised into the EIGRP network.

Correct Answer: D



QUESTION 4

Which three elements must be used when you configure a router interface for VLAN trunking? (Choose three.)

- A. one physical interface for each subinterface
- B. one IP network or subnetwork for each subinterface
- C. a management domain for each subinterface
- D. subinterface encapsulation identifiers that match VLAN tags
- E. one subinterface per VLAN
- F. subinterface numbering that matches VLAN tags

Correct Answer: BDE

This scenario is commonly called a router on a stick. A short, well written article on this operation can be found here: <http://www.thebryantadvantage.com/RouterOnASTickCCNACertificationExamTutorial.htm>

QUESTION 5

A BPDU guard is configured on an interface that has PortFast Enable. Which state does the interface enter when it receives a BPDU?

- A. Blocking.
- B. Shutdown.
- C. Listening.
- D. Errdisable.

Correct Answer: D

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