351-001^{Q&As}

CCIE Routing and Switching Written

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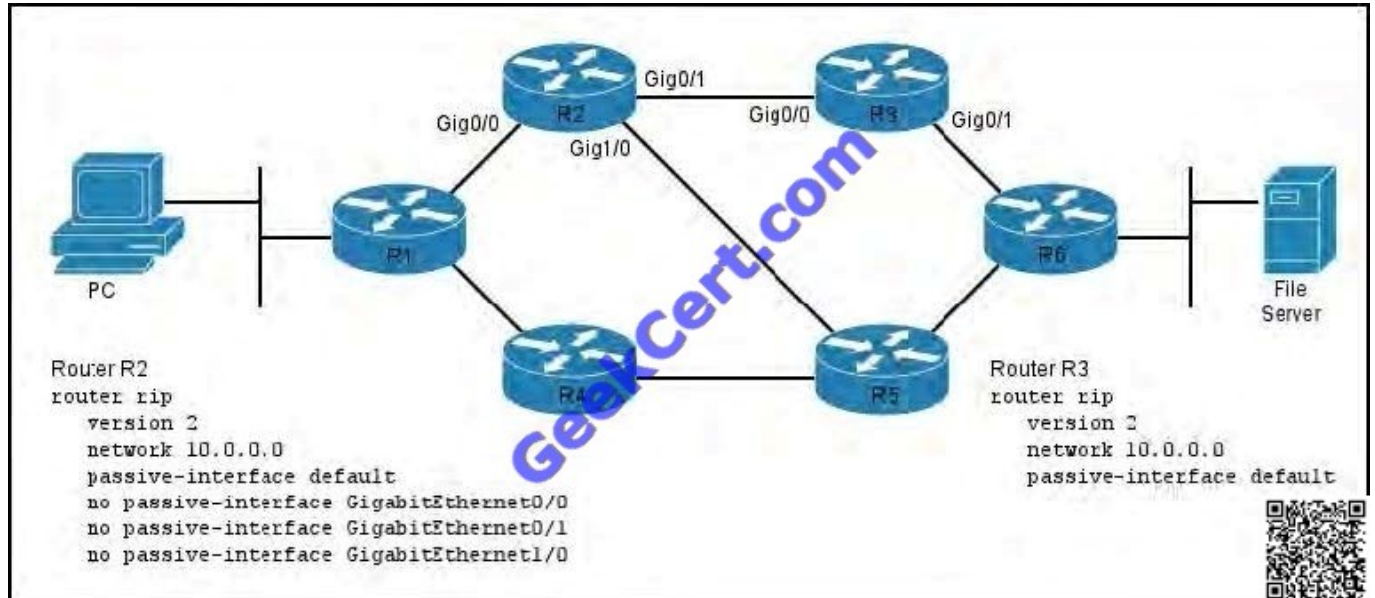Official Exam Center

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QUESTION 1

Refer to the exhibit.


```
Router R2
router rip
    version 2
    network 10.0.0.0
    passive-interface default
    no passive-interface GigabitEthernet0/0
    no passive-interface GigabitEthernet0/1
    no passive-interface GigabitEthernet1/0
```

```
Router R3
router rip
    version 2
    network 10.0.0.0
    passive-interface default
```

All of the routers on this network are running RIP. If you edit the R3 RIP process configuration to reduce the number of hops from R3 to R1, which statement about the configuration change is true?

A. Configuring no passive-interface for GigabitEthernet0/0 in the R3 RIP process reduces the number of hops to R1 by 2.

B. Configuring no passive-interface for GigabitEthernet0/0 in the R3 RIP process reduces the number of hops to R1 by 1.

C. Configuring no passive-interface for GigabitEthernet0/1 in the R3 RIP process reduces the number of hops to R1 by 3.

D. Configuring no passive-interface for GigabitEthernet0/1 in the R3 RIP process reduces the number of hops to R1 by 1.

Correct Answer: A

By changing the link from R3 to R2 to not be passive, traffic can then take the direct route from R3-R2-R1 instead of the longer path of R3-R6-R5-R4-R1, resulting in two less hops.

QUESTION 2

Which two configuration changes should be made on the OTP interface of an EIGRP OTP route reflector? (Choose two.)

A. passive-interface

B. no split-horizon

C. no next-hop-self

D. hello-interval 60, hold-time 180

Correct Answer: BC

The EIGRP Over the Top feature enables a single end-to-end Enhanced Interior Gateway Routing Protocol (EIGRP) routing domain that is transparent to the underlying public or private WAN transport that is used for connecting disparate EIGRP customer sites. When an enterprise extends its connectivity across multiple sites through a private or a public WAN connection, the service provider mandates that the enterprise use an additional routing protocol, typically the Border Gateway Protocol (BGP), over the WAN links to ensure end-to-end routing. The use of an additional protocol causes additional complexities for the enterprise, such as additional routing processes and sustained interaction between EIGRP and the routing protocol to ensure connectivity, for the enterprise. With the EIGRP Over the Top feature, routing is consolidated into a single protocol (EIGRP) across the WAN.

Perform this task to configure a customer edge (CE) device in a network to function as an EIGRP Route Reflector:

1.

 enable

2.

 configure terminal

3.

 router eigrp virtual-name

4.

 address-family ipv4 unicast autonomous-system as-number

5.

 af-interface interface-type interface-number

6.

 no next-hop-self

7.

 no split-horizon

8.

 exit

9.

 remote-neighbors source interface-type interface-number unicast-listen lisp-encap

10.

 network ip-address

11.

 end Note. Use no next-hop-self to instruct EIGRP to use the received next hop and not the local outbound interface address as the next hop to be advertised to neighboring devices. If no next-hop-self is not configured, the data traffic will flow through the EIGRP Route Reflector. Reference: http://www.cisco.com/c/en/us/td/ docs/ios-xml/ios/iproute_eigrp/configuration/xe- 3s/ire-xe-3s-book/ire-eigrp-over-the-top.html

QUESTION 3

Which statement about NAT64 is true?

A. NAT64 provides address family translation and translates IPv4 to IPv6 and IPv6 to IPv4.

B. NAT64 provides address family translation and can translate only IPv6 to IPv4.

C. NAT64 should be considered as a permanent solution.

D. NAT64 requires the use of DNS64.

Correct Answer: A

QUESTION 4

Which term describes an EIGRP route that has feasible successors?

A. active

B. passive

C. redistributed

D. invalid

Correct Answer: B

A topology table entry for a destination can have one of two states. A route is considered in the Passive state when a router is not performing a route recomputation. The route is in Active state when a router is undergoing a route recomputation. If there are always feasible successors, a route never has to go into Active state and avoids a route recomputation.

When there are no feasible successors, a route goes into Active state and a route recomputation occurs. A route recomputation commences with a router sending a query packet to all neighbors. Neighboring routers can either reply if they have feasible successors for the destination or optionally return a query indicating that they are performing a route recomputation. While in Active state, a router cannot change the next- hop neighbor it is using to forward packets. Once all replies are received for a given query, the destination can transition to Passive state and a new successor can be selected.

Reference: http://docwiki.cisco.com/wiki/Enhanced_Interior_Gateway_Routing_Protocol

QUESTION 5

Refer to the exhibit.

The OSPF adjacency between two routers cannot be established. What is the root cause of the problem?

A. Both routers are designated routers.

B. different area ID

C. mismatched OSPF network types

D. authentication error

E. area type mismatch

Correct Answer: E

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