



351-001^{Q&As}

CCIE Routing and Switching Written

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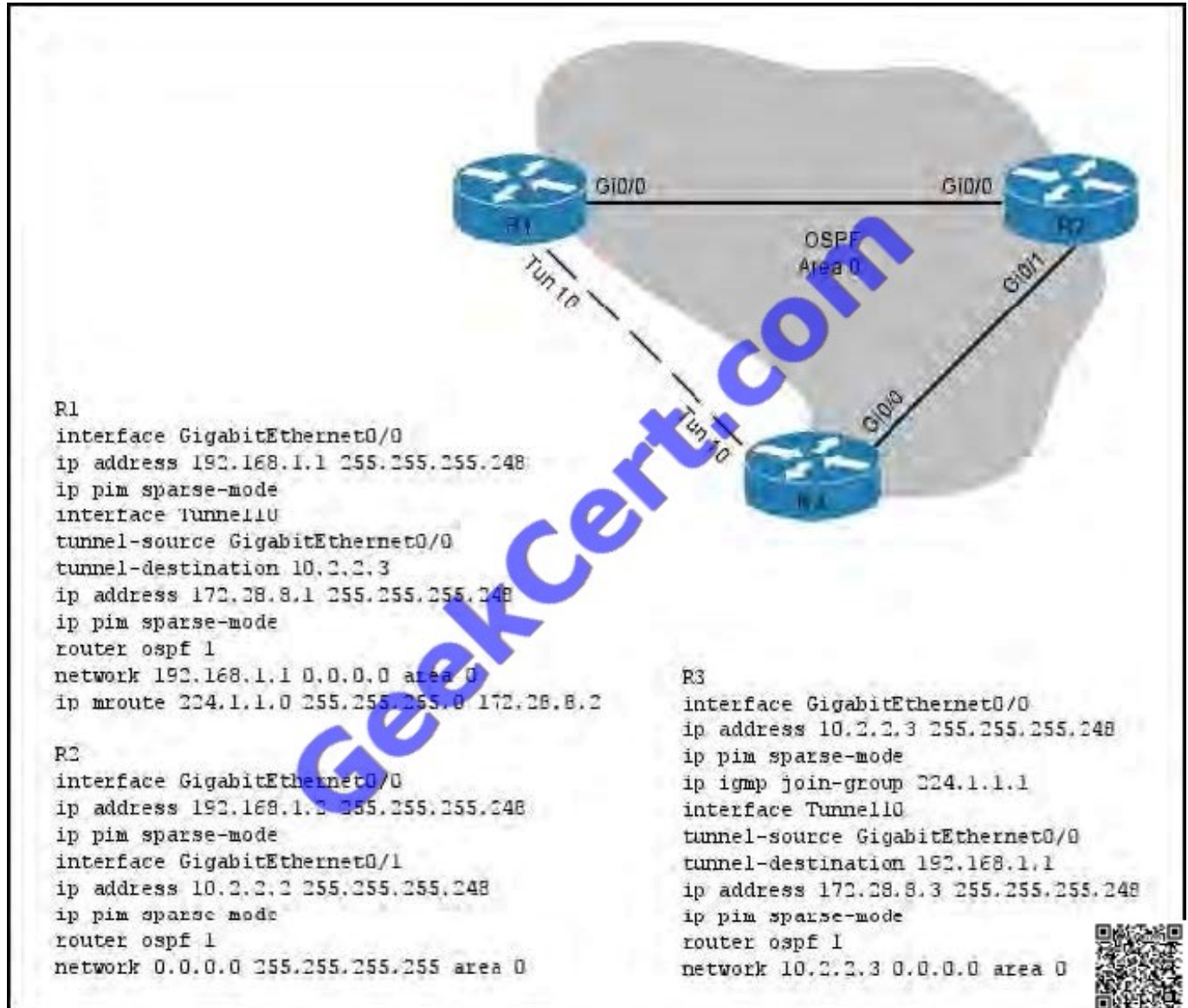
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QUESTION 1

Refer to the exhibit.



R3 is failing to join the multicast group 224.1.1.1 that is sourcing from R1. Which two actions can you take to allow multicast traffic to flow correctly? (Choose two.)

- A. Remove the static multicast route on R1.
- B. Configure OSPF on R1 and R3 to include the tunnel interfaces.
- C. Add an additional static multicast route on R2 for multicast group 224.1.1.1 toward R3.
- D. Replace the static multicast route on R1 to send traffic toward R2.
- E. Remove the static unicast route on R1.



F. Add an additional static unicast route on R2 toward the loopback interface of R3.

Correct Answer: AB

Since the tunnel interfaces are not part of OSPF, the best path to the multicast source of R1 from R3 would be over the Gi0/0 path via OSPF. However, the static mroute is configured to use the tunnel, so this causes an RPF failure used in Sparse Mode. Best fix is to add the tunnel interfaces into OSPF and remove the static mroute so that that the RPF check no longer fails.

QUESTION 2

DRAG DROP

Drag and drop each SNMP security model and level on the left to the corresponding mode of authentication on the right.

Select and Place:

Drag and drop each SNMP security model and level on the left to the corresponding mode of authentication on the right.	
SNMPv2c noAuthNoPriv	provides HMAC-MD5 or HMAC-SHA authentication with DES 56-bit encryption
SNMPv3-authNoPriv	authenticates with a user name match
SNMPv3-authPriv	provides HMAC-MD5 or HMAC-SHA authentication without encryption
SNMPv3-noAuthNoPriv	authenticates with a community string match

Correct Answer:

Drag and drop each SNMP security model and level on the left to the corresponding mode of authentication on the right.	
	SNMPv3 authPriv
	SNMPv3-noAuthNoPriv
	SNMPv3-authNoPriv
	SNMPv2c-noAuthNoPriv

QUESTION 3

On an MPLS L3VPN, which two tasks are performed by the PE router? (Choose two.)

A. It exchanges VPNv4 routes with other PE routers.



- B. It typically exchanges iBGP routing updates with the CE device.
- C. It distributes labels and forwards labeled packets.
- D. It exchanges VPNv4 routes with CE devices.
- E. It forwards labeled packets between CE devices.

Correct Answer: AC

MPLS VPN functionality is enabled at the edge of an MPLS network. The PE router performs these tasks:

Exchanges routing updates with the CE router ?

Translates the CE routing information into VPN version 4 (VPNv4) routes ?

Exchanges VPNv4 routes with other PE routers through the Multiprotocol Border Gateway Protocol (MP-BGP) A PE router binds a label to each customer prefix learned from a CE router and includes the label in the network reachability information for the prefix that it advertises to other PE routers. When a PE router forwards a packet received from a CE router across the provider network, it labels the packet with the label learned from the destination PE router. When the destination PE router receives the labeled packet, it pops the label and uses it to direct the packet to the correct CE router. Label forwarding across the provider backbone is based on either dynamic label switching or traffic engineered paths. A customer data packet carries two levels of labels when traversing the backbone

Reference: http://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k_r4-2/lxvpn/configuration/guide/vcasr9kv342/vcasr9k42v3.html

QUESTION 4

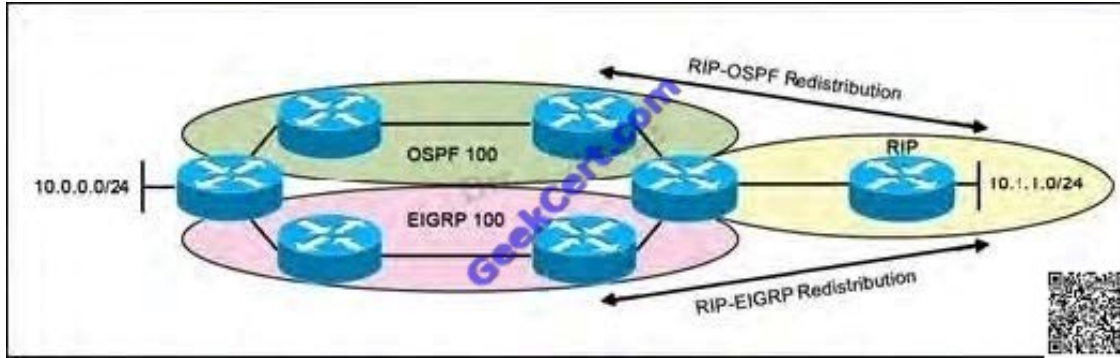
Which three features does GETVPN support to improve deployment and scalability? (Choose three.)

- A. configuration of multiple key servers to work cooperatively
- B. allowing traffic to be discarded until a group member registers successfully
- C. local exceptions in the traffic classification ACL
- D. GDOI protocol configuration between group members and the key server
- E. redundant IPsec tunnels between group members and the key server
- F. redundant multicast replication streaming through the use of a bypass tunnel

Correct Answer: ABC

QUESTION 5

Refer to the exhibit.



Assume that the distances are set to default. Which statement about how the 10.0.0.0 network will reach the 10.1.1.0/24 network is true?

- A. A routing loop will occur.
- B. Packets will be load balanced.
- C. The path through OSPF will be used.
- D. The path through EIGRP will be used.

Correct Answer: C

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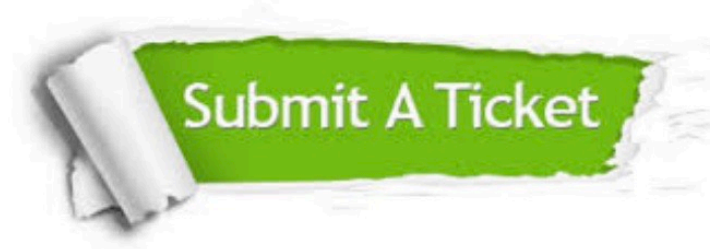
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