

# 4A0-101

## Alcatel-Lucent

### *Alcatel-Lucent Interior Routing Protocols and High Availability*

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**QUESTION: 1**

When a router receives an IP packet, but does not find a match in the routing table for the destination IP address, what actions are performed by the router?

- A. The packet is flooded out all router interfaces.
- B. The packet is dropped and an ICMP unreachable message is sent back to the source.
- C. The packet is silently discarded.
- D. The packet is flooded out all interfaces and an ICMP unreachable message is sent.

**Answer: B**

**QUESTION: 2**

Which of the following statements regarding distance vectors protocols are true? (Choose two answers).

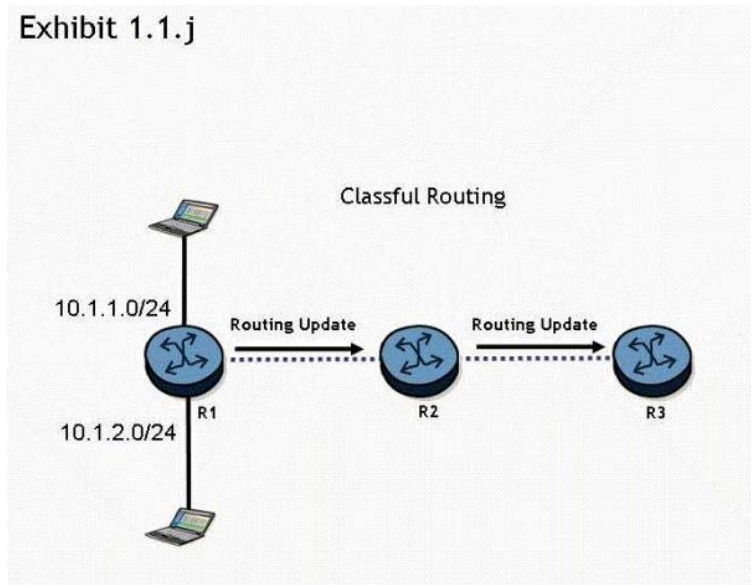
- A. RIPv1, RIPv2, and BGP are distance vector protocols.
- B. OSPF and IS-IS are distance vector protocols.
- C. Routing tables are exchanged between neighbors; however, no routing table is transmitted beyond the immediate neighbor.
- D. Distance vector protocols use the Dijkstra SPF algorithm.
- E. Routers that participate in distance vector routing protocols maintain full knowledge of distant routers and how they interconnect

**Answer: A**

**QUESTION: 3**

Click the exhibit button.

Exhibit 1.1.j



Routers R1, R2, and R3 are running a classful routing protocol between them. Assuming that router R1 advertises all directly connected networks, how will these networks be represented in router R3's routing table?

- A. Router R3's routing table can only contain one of the routes, which will result in route flapping.
- B. Router R3's routing table will have one entry for 10.1.1.0/24 and one entry for 10.1.2.0/24.
- C. The networks will be represented with one entry of 10.0.0.0/8 in router R3's routing table.
- D. The networks will be represented with one entry of 10.0.0.0/24 in router R3's routing table.

**Answer:** C

**QUESTION:** 4

In an IP datagram, which of the following fields identifies the receiving application?

- A. The protocol field of the transport layer header.
- B. The port field of the transport layer header.
- C. The protocol field of the network layer header.
- D. The port field of the network layer address.

**Answer:** B

**QUESTION:** 5

Static routing will be used in a network between a corporate head office, with many connected networks, and a branch office, with one connection to the head office. Which of the following best describes the likely configuration?

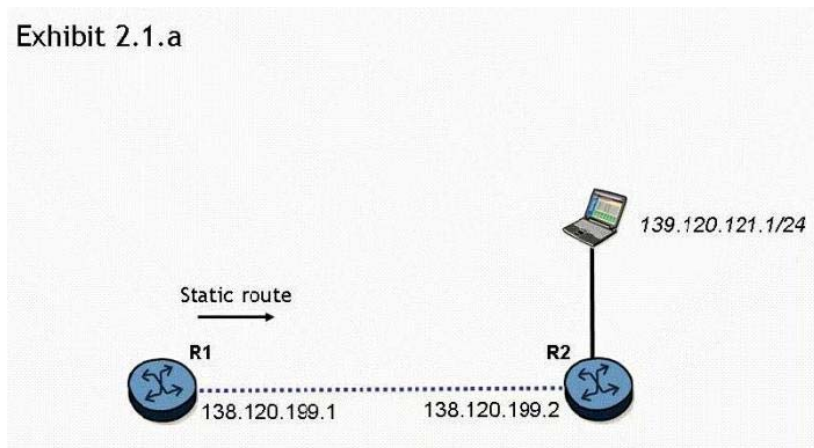
- A. The corporate head office router will have a default route and the branch site will have a more specific static route.
- B. The corporate head office router and the branch office router will both have specific static routes.
- C. The corporate head office router and the branch router will both have default routes.
- D. The corporate head office router will have a more specific static route and the branch office router will have a default route.

**Answer:** D

**QUESTION:** 6

Click the exhibit button.

Exhibit 2.1.a



What is the command to configure a static route on the Alcatel-Lucent 7750 SR router R1 to reach the network behind router R2?

- A. configure router static-route 139.120.121.0/24 next-hop 138.120.199.2
- B. configure router static-route 139.120.121.0/24 next-hop 138.120.199.1
- C. configure router static-route 138.120.199.2/24 next-hop 138.120.199.1
- D. configure router static-route 139.120.121.0/24 next-hop 139.120.121.2

**Answer:** A

**QUESTION:** 7

There is an IP host with IP address 10.2.3.1. A static route is created, using the "configure router static-route 10.2.3.0/24 next-hop 10.1.2.1" command. What is the correct traceroute command to test this static route on an Alcatel-Lucent 7750 SR?

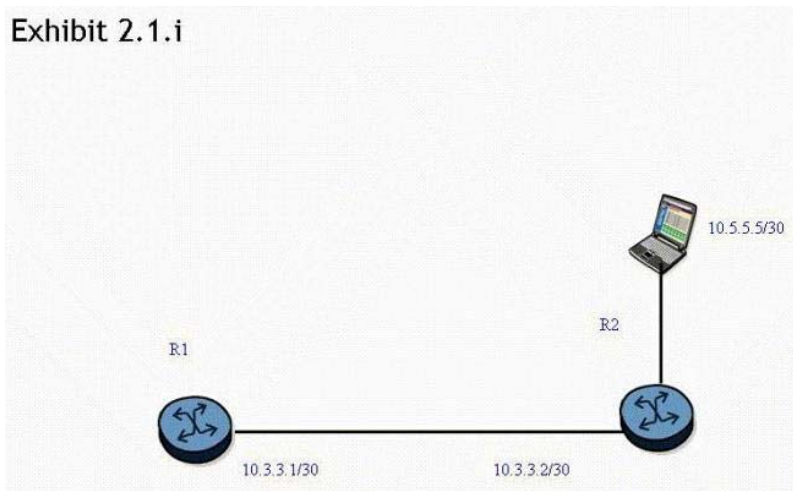
- A. traceroute 10.2.3.1
- B. traceroute 10.2.3.1 next-hop 10.1.2.1
- C. traceroute next-hop 10.1.2.1
- D. traceroute does not work on the Alcatel-Lucent 7750 SR.
- E. traceroute 10.1.2.1

**Answer:** A

**QUESTION: 8**

Click the exhibit button.

Exhibit 2.1.i



A static route is created on router R1, using the "static-route 0.0.0.0/0 next-hop 10.3.3.2" command. What command can be used to test the static route on an Alcatel-Lucent 7750 SR?

- A. ping static 10.5.5.5
- B. ping static 0.0.0.0/0
- C. ping 10.5.5.5
- D. ping 0.0.0.0

**Answer:** C

**QUESTION: 9**

What is the default preference value for a static route in the Alcatel-Lucent 7750 SR?

- A. 0
- B. 5
- C. 10
- D. 15

**Answer:** B

**QUESTION:** 10

Which of the following statements apply to link state protocol behavior? Choose three answers.

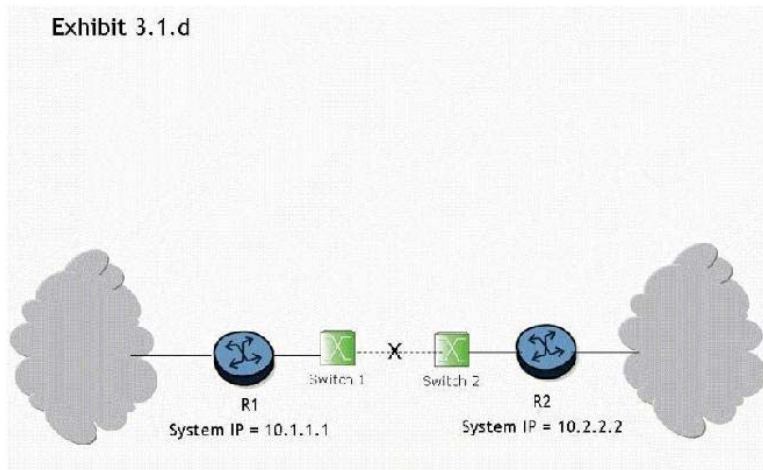
- A. Routers broadcast the entire route table to all neighbors.
- B. Information about directly connected links is sent to all neighbors.
- C. An adjacency database is maintained by each router.
- D. The sequence number for an update is incremented as it is flooded from router to router.
- E. The topological database is the same for all routers in a single area.

**Answer:** B, C, ?

**QUESTION:** 11

Click the exhibit button.

Exhibit 3.1.d



What triggers convergence of the routing protocol when the link between switch 1 and switch 2 goes down?

- A. Convergence is triggered when the adjacency between routers R1 and R2 drops as a result of Hello timeouts. At this point, both routers R1 and R2 re-compute their link state database

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