

# Latest Version: 8.1

## 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).

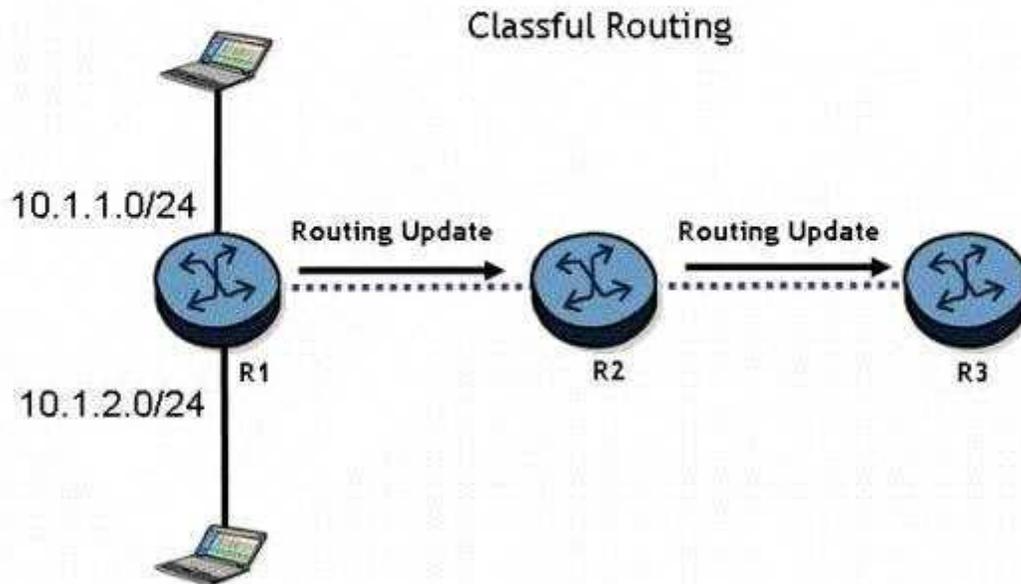
- A. RIPv1, RIPv2, and BGP are distance vector protocols.
- B. OSPF and IS-IS are distance vector protocols.
- C. Routing tables are exchanged between neighbors; however, no routing table is transmitted beyond the immediate neighbor.
- D. Distance vector protocols use the Dijkstra SPF algorithm.
- E.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

**Answer: A, C**

## 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**