



# 98-366<sup>Q&As</sup>

## Networking Fundamentals

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### QUESTION 1

Your network uses routers configured with the RIP router protocol.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

#### Answer Area

	Yes	No
A route can contain no more than 15 hops	<input type="radio"/>	<input type="radio"/>
Route changes are broadcast immediately through the network	<input type="radio"/>	<input type="radio"/>
Route management becomes more efficient as the network grows	<input type="radio"/>	<input type="radio"/>
Routes are calculated based on the number of hops required	<input type="radio"/>	<input type="radio"/>

Correct Answer:

#### Answer Area

	Yes	No
A route can contain no more than 15 hops	<input checked="" type="radio"/>	<input type="radio"/>
Route changes are broadcast immediately through the network	<input checked="" type="radio"/>	<input type="radio"/>
Route management becomes more efficient as the network grows	<input checked="" type="radio"/>	<input type="radio"/>
Routes are calculated based on the number of hops required	<input type="radio"/>	<input checked="" type="radio"/>

Routing Information Protocol (RIP) uses hop count as the metric to rate the value of different routes. The hop count is the number of devices that can be traversed in a route. A directly connected network has a metric of zero; an unreachable network has a metric of 16. This limited metric range makes RIP unsuitable for large networks. The Routing Information Protocol (RIP) sends routing-update messages at regular intervals and when the network topology changes. When a device receives a RIP routing update that includes changes to an entry, the device updates its routing table to reflect the new route. The metric value for the path is increased by 1, and the sender is indicated as the next hop. RIP devices maintain only the best route (the route with the lowest metric value) to a destination. After updating its routing table, the device immediately begins transmitting RIP routing updates to inform other network devices of the



change. These updates are sent independently of the regularly scheduled updates that RIP devices send.

Summarizing routes in RIP Version 2 improves scalability and efficiency in large networks. Summarizing IP addresses means that there is no entry for child routes (routes that are created for any combination of the individual IP addresses

contained within a summary address) in the RIP routing table, reducing the size of the table and allowing the router to handle more routes.

It is a stable protocol that uses a distance-vector algorithm to calculate routes.

References:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute\\_rip/configuration/15-mt/irr-15-mt-book/irr-cfg-info-prot.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_rip/configuration/15-mt/irr-15-mt-book/irr-cfg-info-prot.html)

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## QUESTION 2

This question requires that you evaluate the underlined text to determine if it is correct.

A network that separates an organization's private network from a public network is an extranet.

Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

- A. a perimeter
- B. an intranet
- C. the Internet
- D. No change is needed

Correct Answer: A

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## QUESTION 3

Which access method is used in a physical ring topology?

- A. collision
- B. token passing
- C. avoidance
- D. polling

Correct Answer: B

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## QUESTION 4

This question requires that you evaluate the underlined text to determine if it is correct.



"WEP" wireless encryption is the most susceptible to interception and decryption.

Select the correct answer if the underlined text does not make the statement correct. Select '\\No change is needed\\' if the underlined text makes the statement correct

- A. WPA-AES
- B. WPA2
- C. WPA-PSK
- D. No change is needed

Correct Answer: D

Several weaknesses have been discovered using WEP encryption that allows an attacker using readily available software to crack the key within minutes.

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#### QUESTION 5

The default port used for SMTP is:

- A. 23
- B. 25
- C. 80
- D. 8080

Correct Answer: B

SMTP by default uses TCP port 25.

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