



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

Networking Fundamentals

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### QUESTION 1

A Layer 2 device that connects multiple computers within a network is a:

- A. Repeater
- B. Switch
- C. Router
- D. Packet

Correct Answer: B

Layer 2 switching uses the media access control address (MAC address) from the host's network interface cards (NICs) to decide where to forward frames.

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### QUESTION 2

For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

Hot Area:

#### Answer Area

	Yes	No
Dynamic Routing provides the ability to add networks automatically by learning them from other RIP routers.	<input type="checkbox"/>	<input type="checkbox"/>
Dynamic Routing provides the ability to automatically remove routes from the routing table when other RIP neighbors delete them.	<input type="checkbox"/>	<input type="checkbox"/>
Dynamic Routing provides the ability to select the best route based on routing metrics.	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:



### Answer Area

Yes

No

Dynamic Routing provides the ability to add networks automatically by learning them from other RIP routers.

Dynamic Routing provides the ability to automatically remove routes from the routing table when other RIP neighbors delete them.

Dynamic Routing provides the ability to select the best route based on routing metrics.

### QUESTION 3

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

When a client computer is unable to reach a DHCP server, it will automatically assign an IP address in the "10.0.0.0-10.0.0.255" range.

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. 127.0.0.0-127.0.0.255
- B. 169.254.0.0-169.254.255.255
- C. 192.168.100.0 -192.168.100.255
- D. No change is needed

Correct Answer: B

169.254.0.0 - 169.254.255.255 is the APIPA address range. An APIPA address is used when the DHCP server is not available.

### QUESTION 4

A network device that associates a Media Access Control (MAC) address with a port is a:

- A. DSL modem
- B. Hub
- C. Router



D. Switch

Correct Answer: D

A switch begins learning the local MAC addresses as soon as it is connected to other devices or to a network. This learning capability makes switches easy to use on a network.

The switch learning process works like this:

- 1.As a PC or other networked device sends a frame to another device through the switch, the switch captures the source MAC address of the frame and the interface that received it.
  - 2.The switch confirms or adds the MAC address and the port to the lookup table.
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### QUESTION 5

Which of these factors has the biggest impact on data transmission speed in a wireless network?

- A. The access method used for the network
- B. The transmission standard of the equipment used
- C. The use of strong encryption for transmissions
- D. The transmission wattage rating used on the NIC

Correct Answer: B

The speed of a Wi-Fi wireless network connection depends on several factors.

Like most kinds of computer networks, Wi-Fi supports varying levels of performance depending on which technology standards it supports. Each Wi-Fi standard is rated according to its maximum theoretical network bandwidth:

A Wi-Fi network connection operates at the highest possible speed that both devices (endpoints) can support. An 802.11g laptop connected to an 802.11n router, for example, will network at the lower speeds of 802.11g.

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