

IT210 CHAPTER 17

1 A VLAN is a local area network configured by_____.

- A) software
- B) physical wiring
- C) software or physical wiring
- D) None of the choices are correct

2 A repeater is a connecting device that operates in the _____ layer(s).

- A) physical
- B) physical and data-link
- C) data-link and network
- D) physical, data-link, and network

3 A link-layer switch is a connecting device that operates in the _____ layer(s).

- A) physical
- B) physical and data-link
- C) data-link and network
- D) physical, data-link, and network

4 A router is a connecting device that operates in the _____ layer(s).

- A) physical
- B) physical and data-link
- C) data-link and network
- D) physical, data-link, and network

5 A _____ has no filtering capability.

- A) repeater
- B) link-layer switch
- C) router
- D) None of the choices are correct

6 A three-layer switch is a _____.

- A) repeater
- B) link-layer switch
- C) router
- D) None of the choices are correct

IT210 CHAPTER 17

7 A router filters packets based on the _____ destination addresses.

- A) data-link
- B) network-layer
- C) transport-layer
- D) None of the choices are correct

8 A link-layer switch filters packets based on the _____ destination addresses.

- A) data-link
- B) network-layer
- C) transport-layer
- D) None of the choices are correct

9 Looping problems in a set of switches can be eliminated using _____ algorithm.

- A) routing
- B) spanning-tree
- C) forwarding
- D) None of the choices are correct

10 Membership in a VLAN can be based on _____.

- A) interface numbers
- B) MAC addresses
- C) IP addresses
- D) All of the choices are correct