
CHAPTER 16

Connecting LANs, Backbone Networks, and Virtual Networks

Review Questions

1. An amplifier amplifies the signal, as well as noise that may come with the signal, whereas a repeater regenerates the signal, creating its copy bit for bit at the original strength.
3. A transparent bridge is one in which the stations are completely unaware of the bridge's existence.
5. A hub is a multiport repeater.
7. A forwarding port forwards a frame that it receives; a blocking port does not.
9. A VLAN saves time and money because reconfiguration is done through software. Physical reconfiguration is not necessary.
11. A VLAN creates virtual workgroups. Each workgroup member can send broadcast messages to others in the workgroup. This eliminates the need for multicasting and all the overhead messages associated with it.
13. TDM can be used to provide communication between switches.

Multiple-Choice Questions

15. c
17. a
19. d
21. a
23. a
25. d
27. b
29. b

Exercises

31. See Figure 16.1.

Figure 16.1 Exercise 31

