

## Regionals 2004—Network Design

### True/False

Indicate whether the following are true or false.

1. The three types of local area networks are peer-to-peer, server-based, and client server.
2. Today printers come in two types: personal printers and network printers
3. Groupware allows only one user to access a specific document at a time.
4. A computer network connects many computers together.
5. A client-server LAN is an inexpensive network.
6. Your telephone service is an example of a multipoint topology.
7. If one computer fails on a star topology network, the entire network is brought to a halt.
8. Demand priority allows networked devices to have different priorities.
9. Several pieces of equipment on a network can share the same address.
10. Topology is computer networking software.
11. Because the entire cable is used by one data signal, only one device can transmit at a time in baseband transmission.
12. The two ways in which a signal can be sent across a cable are baseband and broadband.
13. Unshielded twisted pair cables do not have any shielding.
14. A NIC card is installed in every computer that is connected to a network.
15. A cable with a lower attenuation number is better than a cable with a higher number.
16. A 10Base-T Ethernet is called "Solo Ethernet" because traffic cannot be shared between segments.
17. A 100VG-Any LAN can set priorities for different types of network needs or among different users.

- 18. A 10Base-5 Ethernet uses thick coaxial cable.
- 19. A 10Base-T Ethernet can accommodate 1,024 computers.
- 20. A 10Base-2 Ethernet uses a star topology.
- 21. The network operating system (NOS) software is responsible for formatting all the devices on a network.
- 22. The Domain Name System (DNS) associates packers with computer names.
- 23. A multiple-user application is designed to run on a network's server.
- 24. IPX/SPX is based on a protocol developed by Sun Microsystems in the late 1970s.
- 25. Application software is a software that helps users perform tasks with the computer.

### **Multiple Choice**

Choose the best answer for each of the following.

- 26. Which of the following is not a common type of medium used in networking?
  - a. Coaxial cable
  - b. Twisted pair cable
  - c. Fiber optic cable
  - d. RJ-45
- 27. What is the distance limitation on 10Base2, or Thinnet?
  - a. 100 meters
  - b. 185 meters
  - c. 250 meters
  - d. 500 meters
- 28. When data is able to travel in both directions on a cable, it is known as which of the following?
  - a. Fault tolerance
  - b. Half duplex
  - c. biduplex
  - d. full duplex
- 29. In what type of network is there no dedicated server and each node on the network is an equal resource for sharing and receiving information?
  - a. Client/server
  - b. Peer-to-peer
  - c. Windows NT server 4.0
  - d. Novell IntraNetWare 4.x

30. In order for differing networks to communicate with each other, we need to use which of the following to translate between the networks?
- a. Protocol
  - b. Medium
  - c. Gateway
  - d. Bridge
31. Where is DNS information stored?
- a. Unix/bin/etc/DNS
  - b. %systemroot%\system32\DNS
  - c. unix/etc/bin
  - d. %systemroot%\system32\etc\bin
32. What is the well known port number for the HTTP service?
- a. 20
  - b. 21
  - c. 80
  - d. 70
33. Which utility is used to determine the path that data takes during transport to a remote host?
- a. NBTSTAT
  - b. ARP
  - c. FTP
  - d. tracert
34. Which utility is used to facilitate file transfers between two remote hosts?
- a. FTP
  - b. telnet
  - c. Ping
  - d. none of the above
35. Which utility is used to verify network connectivity of a remote host?
- a. Route
  - b. ARP
  - c. ping
  - d. none of the above
36. Which network layer protocols can Serial Line Internet Protocol use during a dial-up session?
- a. TCP/IP
  - b. IPX
  - c. SLP
  - d. none of the above
37. Which protocol supports multiple Network layer protocols over a serial link?
- a. SLIP
  - b. PPP
  - c. IPX
  - d. NetBEUI
38. Which switching technology is used by the telephone company/
- a. Packet
  - b. Circuit
  - c. WAN
  - d. Hub

39. Which switching method will allow for data transmission even when part of the network fails?
- a. Packet
  - b. Circuit
  - c. WAN
  - d. Hub
40. What portion of the Windows NT security subsystem handles both local security policies and user authentication, and generates audit log messages?
- a. Local Security Authority
  - b. Security Accounts Manager
  - c. Security Reference Number
  - d. None of the above
41. Which of the following is classified as an encryption method?
- a. Stream cipher
  - b. Data cipher
  - c. byte cipher
  - d. black cipher
42. Which network appliance is used to connect two computer networks that are separated by two different protocols?
- a. Bridge
  - b. ATM switch
  - c. hub
  - d. gateway
43. What type of network cable can support data speeds up to 100 Mbps on a local area network?
- a. 10Base T (Category 1)
  - b. phone wire
  - c. 10Base T (Category 5)
  - d. TV cable
44. Which of the following is not a good reason for removing an unused or outdated driver?
- a. To conserve space
  - b. To conserve memory
  - c. So they don't accidentally get loaded
  - d. So they don't get corrupted
45. Which of the following workstation settings can cause the most damage on a network?
- a. An improperly configured binding order
  - b. An improperly configured speed on the network card
  - c. An invalid Token Ring address
  - d. A workstation configured as a master browser

46. What is a key component of installing an update or patch successfully on your network?
- a. Reading competitor's documentation to see whose is better, and then selecting a better package
  - b. Reading the readme files and documentation to make sure you have the information you need to install the application successfully
  - c. Reading the documentation on the server to see if the software is compatible with the server
  - d. Reading the Web site home page to see if the product is still in production
47. To make sure you have the most up-to-date file and version of the software, you need to go to the vendor's Web site and download the most current version of what?
- a. Software packs
  - b. Network packs
  - c. Software patches
  - d. Readme files
48. A few computers on the engineering segment are having problems reaching the AutoCAD design segment on the network, but they can access all other segments. What is your initial diagnosis of the problem?
- a. It's a default gateway issue
  - b. It's a routing issue
  - c. The computers are having cabling problems
  - d. A hub is locked up
49. All users on a coaxial bus topology network have suddenly complained that the network is not functioning and they can no longer access resources on the local or remote networks. What is your initial diagnosis of the problem?
- a. It's a routing issue
  - b. It's a default gateway issue
  - c. The network is no longer terminated
  - d. A hub is locked up
50. You think you are having problems with the UNIX server in another region. Two users have already complained this morning. What would be the next logical step in your troubleshooting?
- a. Check the router
  - b. Check the hub
  - c. PING the UNIX server by name
  - d. PING the UNIX server by IP address.

**Regionals 2004—Network Design  
Answer Key**

**#413**

**True/False**

**Multiple Choice**

1. T
2. T
3. F
4. T
5. F
6. T
7. F
8. T
9. F
10. F
11. T
12. T
13. T
14. T
15. T
16. F
17. T
18. T
19. T
20. F
21. F
22. F
23. T
24. F
25. T

26. D
27. B
28. D
29. B
30. C
31. B
32. C
33. D
34. A
35. C
36. A
37. B
38. B
39. A
40. A
41. A
42. D
43. C
44. D
45. B
46. B
47. C
48. B
49. C
50. D