

# QUIZ Chapter 1

1. Which of the following is a basic function a computer performs? (Choose all that apply.)
  - a. Processing
  - b. Internet access
  - c. Input
  - d. Graphics
  - e. Output
  - f. E-mail
2. The executes instructions provided by computer programs.
  - a. CPU
  - b. NIC
  - c. hard drive
  - d. USB
3. When a CPU has two or more processors, each one is referred to as
  - a(n) .
  - a. I/O
  - b. core
  - c. OS
  - d. flash
4. Which of the following is considered long-term storage? (Choose all that apply.)
  - a. USB or flash drive
  - b. RAM
  - c. Working storage
  - d. Hard drive
5. Which motherboard component controls data transfers between memory, expansion slots, I/O devices, and the CPU?
  - a. RAM slots
  - b. IDE connectors
  - c. Chipset
  - d. PCI-Express
6. You want to purchase a high-performance graphics card for your computer. Which type of connector should it have?
  - a. PCI
  - b. SATA
  - c. IDE
  - d. PCI-Express
7. The time it takes for read/write heads to move to the correct spot on the platter is called which of the following?
  - a. Rotational delay
  - b. Seek time
  - c. Transfer time
  - d. Access time
8. Which of the following is a task usually performed by the BIOS? (Choose all that apply.)
  - a. Perform a POST.
  - b. Create an interrupt.
  - c. Store the operating system.
  - d. Begin the boot procedure.

9. Place the following steps of the boot procedure in order.

- a. The OS is loaded into RAM.
- b. CPU starts.
- c. OS services are started.
- d. Power is applied.
- e. The POST is executed.
- f. Boot devices are searched.

10. You have just installed a new NIC in your PC to replace the old one that had started malfunctioning. What additional software must be installed to allow the OS to communicate with the new NIC?

- a. Network application
- b. Device driver
- c. BIOS
- d. Protocol

11. Which of the following requests information stored on another computer?

- a. NIC
- b. Network client
- c. Network server
- d. Network protocol
- e. Device driver

12. Choose the correct order for the process of a user attempting to access network resources:

- 1. Network protocol
  - 2. Application
  - 3. Network client
  - 4. NIC driver
- a. 4, 2, 1, 3
  - b. 3, 2, 1, 4
  - c. 1, 4, 2, 3
  - d. 2, 3, 1, 4
  - e. 3, 1, 2, 4

13. TCP/IP is an example of which of the following?

- a. NIC
- b. Network client
- c. Network server
- d. Network protocol
- e. Device driver

14. In network communication, the address is used to deliver a frame to the correct computer on the network. (Choose all that apply.)

- a. MAC
- b. logical
- c. IP
- d. physical

15. A(n) message is used to determine whether a computer is listening on the network.

- a. MAC

- b. ping
- c. IP
- d. TCP

16. TCP/IP uses to look up a computer's IP address, given its name.

- a. DNS
- b. ping
- c. MAC
- d. TCP

17. The unit of information containing MAC addresses and an error-checking code that's processed by the network interface layer is called a .

- a. packet
- b. ping
- c. frame
- d. chunk

18. Data is processed from the time an application creates it to the time it reaches the network medium. This process includes adding information such as addresses and is called which of the following?

- a. Packetization
- b. Encapsulation
- c. Deencapsulation
- d. Layering

19. You're the network administrator for a company that has just expanded from one floor to two floors of a large building, and the number of workstations you need has doubled from 50 to 100. You're concerned that network performance will suffer if you add computers to the existing LAN. In addition, new users will be working in a separate business unit, and there are reasons to logically separate the two groups of computers. What type of network should you configure?

- a. WAN
- b. MAN
- c. Internetwork
- d. Extended LAN

20. Which of the following best describes a client?

- a. A computer's primary role in the network is to give other computers access to network resources and services.
- b. A computer's primary role in the network is to run user applications and access network resources.
- c. It's the software that responds to requests for network resources.
- d. The OS installed on a computer is designed mainly to share network resources.

21. You work for a small company with four users who need to share information on their computers. The budget is tight, so the network must be as inexpensive as possible. What type of network should you install?

- a. Server-based network
- b. Peer-to-peer network
- c. Wide area network
- d. Storage area network

22. Which of the following characteristics is associated with a peer-to-peer network?

(Choose all that apply.)

- a. Decentralized data storage
- b. Inexpensive
- c. User-managed resources
- d. Centralized control
- e. Uses a directory service

23. A device interconnects five computers and a printer in a single office so that users can share the printer. This configuration is an example of which of the following?

- a. LAN
- b. MAN
- c. WAN
- d. Internetwork

24. A company has just made an agreement with another organization to share their two networks' resources by using TCP/IP protocols. What best describes this arrangement?

- a. MAN
- b. LAN
- c. Intranet
- d. Extranet

25. You have installed Windows Server 2012 on a new server and want to centralize user logons and security policies. What type of software should you install and configure on this server?

- a. Naming services
- b. Application services
- c. Communication services
- d. Directory services

26. Peer-to-peer networks aren't suitable in which of the following situations?

- a. Tight security is required.
- b. Five or fewer users need network access.
- c. Budget is the primary consideration.
- d. No one uses the network heavily.

### Case Project 1-1

Networking Gadgets, Inc., currently employs 8 people but plans to hire 10 more in the next four months. Users will work on multiple projects, and only users assigned to a project should have access to the project files. You're instructed to set up the network to make it easy to manage and back up yet still provide centralized storage for project files. Would you choose a peer-to-peer network, a server-based network, or a combination? Why?

### Case Project 1-2

CNT Books hired you as a productivity consultant. Currently, it employs six people who will be moving into new office space. You are to configure a network that allows them to share files and printers. Employees must also be able to control resources on their own machines. The company wants the most inexpensive solution and only minimal training for employees. Would you choose a peer-to-peer network or a server-based network? Write a list of supplies you might need to purchase to perform this task. What computer configuration tasks might you need to perform?

### Case Project 1-3

CNT Books has expanded considerably since you got the network up and running three years ago. It now occupies an entire floor in the building, and its LAN has grown to include several servers and more than 60 workstations.

CNT Books has recently purchased another book company and needs more space and computers. Expansion plans include leasing another floor four stories above the current offices in the same building and adding 35 workstations and at least one more server immediately, with additional equipment purchases expected. What type of network is called for—LAN, WAN, MAN, or internetwork? What additional devices might be needed to ensure efficient network communication?

## Case Project 1-4

Chapter 2 discusses network hardware. To prepare for this topic, search for the following terms online. Read at least one article about each term and be prepared to discuss these terms in class:

- Network interface card
- Hub
- Switch
- Router

Which of the following is a basic function a computer performs? (Choose all that apply.)

- a. Processing
- c. Input
- e. Output

The \_\_\_\_ executes instructions provided by computer programs.

- a. CPU

When a CPU has two or more processors, each one is referred to as a(n) \_\_\_\_.

- b. core

Which of the following is considered long-term storage? (Choose all that apply.)

- d. Hard drive

Which motherboard component controls data transfers between memory, expansion slots, I/O devices, and the CPU?

- c. Chipset

You want to purchase a high-performance graphics card for your computer.

Which type of connector should it have?

- d. PCI-Express

The time it takes for read/write heads to move to the correct spot on the platter is called which of the following?

- b. Seek time

Which of the following is a task usually performed by the BIOS? (Choose all that apply.)

- a. Perform a POST.
- d. Begin the boot procedure.

Place the following steps of the boot procedure in order.

- d. Power is applied.
- e. The POST is executed.
- b. CPU starts.
- f. Boot devices are searched.
- a. The OS is loaded into RAM.

c. OS services are started.

You have just installed a new NIC in your PC to replace the old one that had started malfunctioning. What additional software must be installed to allow the OS to communicate with the new NIC?

b. Device driver

Which of the following requests information stored on another computer?

c. Network server

Choose the correct order for the process of a user attempting to access network resources:

e. 3, 1, 2, 4

TCP/IP is an example of which of the following?

d. Network protocol

In network communication, the \_\_\_\_ address is used to deliver a frame to the correct computer on the network. (Choose all that apply.)

a. MAC

c. IP

A \_\_\_\_ message is used to determine whether a computer is listening on the network.

b. ping

TCP/IP uses \_\_\_\_ to look up a computer's IP address, given its name.

a. DNS

The unit of information containing MAC addresses and an error-checking code that's processed by the network interface layer is called a \_\_\_\_.

c. frame

Data is processed from the time an application creates it to the time it reaches the network medium. This process includes adding information such as addresses and is called which of the following?

b. Encapsulation

You're the network administrator for a company that has just expanded from one floor to two floors of a large building, and the number of workstations you need has doubled from 50 to 100. What type of network should you configure?

d. Extended LAN

Which of the following best describes a client?

b. A computer's primary role in the network is to run user applications and access network resources.

You work for a small company with four users who need to share information on their computers. The budget is tight, so the network must be as inexpensive as possible. What type of network should you install?

b. Peer-to-peer network

Which of the following characteristics is associated with a peer-to-peer network? (Choose all that apply.)

a. Decentralized data storage

b. Inexpensive

c. User-managed resources

A device interconnects five computers and a printer in a single office so that users can share the printer. This configuration is an example of which of the following?

a. LAN

A company has just made an agreement with another organization to share their two networks' resources by using TCP/IP protocols. What best describes this arrangement?

d. Extranet

You have installed Windows Server 2012 on a new server and want to centralize user logons and security policies. What type of software should you install and configure on this server?

d. Directory services

Peer-to-peer networks aren't suitable in which of the following situations?

a. Tight security is required.