

## Chapter 1 Test

### True/False

*Indicate whether the sentence or statement is true or false.*

- \_\_\_ 1. One of the earliest mechanical calculating devices was the Pascaline.
- \_\_\_ 2. Herman Hollerith invented the tabulating machine in response to a contest sponsored by the U.S. Census Bureau.
- \_\_\_ 3. Magnetic tape gave computers the ability to read and write data more quickly and reliably than punched cards.
- \_\_\_ 4. A high-level programming language consists of English-like instructions.
- \_\_\_ 5. First generation computers had more capabilities than second generation computers.
- \_\_\_ 6. Ada is a high-level programming language that supports real-time applications.
- \_\_\_ 7. A CPU can think for itself.
- \_\_\_ 8. Application is another name for software.
- \_\_\_ 9. Cache memory is used to store frequently used data so that it can be quickly retrieved by an application.
- \_\_\_ 10. A printer is a peripheral device.
- \_\_\_ 11. WANs are used to connect devices over large geographical distances.
- \_\_\_ 12. Topology refers to the physical arrangement of the nodes on a network.
- \_\_\_ 13. The OOP approach allows programmers to create modules that can be used over and over again.
- \_\_\_ 14. The physical components of the personal computer, such as the monitor, are called software.
- \_\_\_ 15. Unicode is a digital code used to represent letters of the alphabet and symbols.
- \_\_\_ 16. Historians refer to the present time as the industrial age.
- \_\_\_ 17. The illegal copying of software is called piracy.
- \_\_\_ 18. Computers will only do what they have been programmed to do.

## Chapter 1 Test (continued)

### Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- \_\_\_ 19. What did Ada Byron mean when she said that the Analytical Engine could never “originate anything”?
- a. A machine could not talk.
  - b. A machine could not think.
  - c. A machine could not do calculations.
  - d. A machine could not make decisions.
- \_\_\_ 20. The number system used in computers is called
- a. decimal.
  - b. hexadecimal.
  - c. binary.
  - d. base.
- \_\_\_ 21. A combination of software and hardware that work together to allow computers to exchange data and to share software and devices such as printers is called a
- a. network.
  - b. modem.
  - c. peripheral device.
  - d. hard disk array.
- \_\_\_ 22. The invention of the transistor was important to the development of computers because it
- a. increased calculating speed.
  - b. increased the cost of computers.
  - c. decreased reliability.
  - d. increased the size of computers.
- \_\_\_ 23. A mainframe computer
- a. is large and usually used for multi-user applications.
  - b. usually stores and processes small amounts of information.
  - c. is small enough to fit on a desktop.
  - d. is usually used by a single user.
- \_\_\_ 24. The invention of the microprocessor made possible the
- a. first generation of computers.
  - b. second generation of computers.
  - c. third generation of computers.
  - d. fourth generation of computers.
- \_\_\_ 25. RAM
- a. is memory where data and instructions are stored permanently.
  - b. is memory where data and instructions are stored temporarily.
  - c. is a set of circuits that connect the CPU to other components.
  - d. is the computer’s clock rate.
- \_\_\_ 26. A program is a list of instructions
- a. that makes the computer think.
  - b. written in a special language that the computer understands.
  - c. written in English that tells the computer what to do.
  - d. written in Basic that makes the computer think.
- \_\_\_ 27. How many states do the electrical circuits on an IC (integrated circuit) have?
- a. one: on
  - b. two: on, off
  - c. four: + - \* /
  - d. three: on, off, wait

## Chapter 1 Test (continued)

- \_\_\_\_\_ 28. A bit is
- a. a single 0 or 1 in the binary code.
  - b. eight 0s or 1s.
  - c. a person's name stored in memory.
  - d. equal to 64K of RAM.
- \_\_\_\_\_ 29. Computer memory capacity and file size are measured in
- a. bytes.
  - b. inches.
  - c. nanoseconds.
  - d. codes.
- \_\_\_\_\_ 30. Operating system software
- a. is a combination of hardware and software that works together to allow computers to exchange data.
  - b. is network security hardware that prevents unauthorized network access.
  - c. is software that enables the user to communicate with the computer.
  - d. is a series of related Web pages.
- \_\_\_\_\_ 31. In which type of network topology is each node attached to a hub?
- a. bus topology
  - b. star topology
  - c. ring topology
  - d. client topology
- \_\_\_\_\_ 32. Which is not a high-level programming language?
- a. Fortran
  - b. machine language
  - c. C++
  - d. Visual Basic .NET
- \_\_\_\_\_ 33. 00000000 01001101 represents the letter M in
- a. decimal.
  - b. hexadecimal.
  - c. kilobytes.
  - d. binary.
- \_\_\_\_\_ 34. Which is not an object-oriented programming language?
- a. C++
  - b. Java
  - c. Visual Basic .NET
  - d. COBOL
- \_\_\_\_\_ 35. A set of circuits that connect the CPU to other components on the motherboard is called a
- a. storage medium.
  - b. bus.
  - c. base unit.
  - d. transformer.
- \_\_\_\_\_ 36. A program that is designed to reproduce itself by copying itself into other programs without the user's knowledge is called
- a. a bug.
  - b. a virus.
  - c. a reproduction.
  - d. an infection.

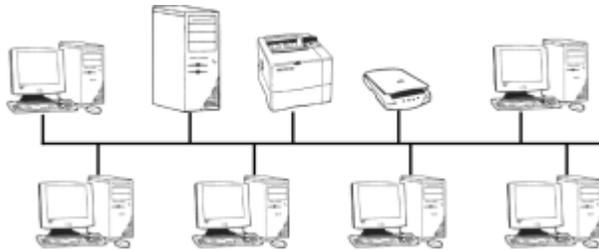
## Chapter 1 Test (continued)

### Completion

Complete each sentence or statement.

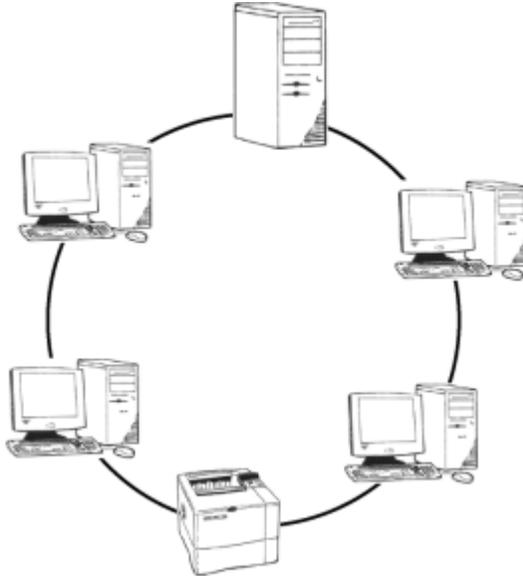


37. Label a above is referring to the \_\_\_\_\_.
38. Label b above is referring to the \_\_\_\_\_.
39. Label c above is referring to the \_\_\_\_\_.
40. Label d above is referring to the \_\_\_\_\_.
41. Label e above is referring to the \_\_\_\_\_.
42. Label f above is referring to the \_\_\_\_\_.
43. Label g above is referring to the \_\_\_\_\_.
44. The diagram below illustrates a \_\_\_\_\_ topology.



## Chapter 1 Test (continued)

45. The diagram below illustrates a \_\_\_\_\_ topology.



### Matching

*Match the law with the corresponding description.*

- a. Fair Credit Reporting Act of 1970
  - b. Privacy Act of 1974
  - c. Electronic Freedom of Information Act of 1996
  - d. Financial Privacy Act of 1978
- \_\_\_ 46. Requires federal government agencies to make certain agency information available for public inspection.
- \_\_\_ 47. Restricts the way in which personal data can be used by federal agencies.
- \_\_\_ 48. Requires that a government authority have a subpoena, summons, or search warrant to access an individual's financial records.
- \_\_\_ 49. Gives individuals the right to see information maintained about them.

### Essay

50. To protect the privacy of individuals, several laws have been passed. Name and describe two of these laws.