

Chapter04

True/False

Indicate whether the statement is true or false.

- ___ 1. Hardware, in computer terms, refers to the physical components of the computer.
- ___ 2. Input devices, most commonly computer monitors and printers, deliver information from the computer to a person.
- ___ 3. Businesses that must handle business transactions and store large amounts of data in a central computer often use mainframes, which some IT professionals fondly call “big iron.”
- ___ 4. So far, PCs have trailed notebooks in terms of speed, memory, and hard disk capacity.
- ___ 5. New processor-making technologies let engineers increase the processing speed of computers while enabling computers to use less energy and give off less heat.
- ___ 6. The control unit is the part of the CPU where all arithmetic and logic operations take place.
- ___ 7. All other things being equal, the greater the clock rate, the faster the machine, because it can fetch, decode, execute, and store more instructions per second.
- ___ 8. Optical bar recognition senses data encoded in the series of thick and thin black bars in bar codes.
- ___ 9. The Mac OS and Windows Vista operating systems include a voice recognition feature.
- ___ 10. Popular output devices include the keyboard, mouse, trackball, microphone, and various types of scanners.
- ___ 11. It is likely that within a few years we will rarely see CRT monitors in offices or homes.
- ___ 12. In direct access, data is organized one record after another.
- ___ 13. Storage and retrieval on sequential storage devices are slow but the devices are inexpensive, which makes tapes suitable for backup purposes.
- ___ 14. The most widely used storage medium is the optical disc.
- ___ 15. Optical tape uses the same technology as optical discs to store and retrieve data.
- ___ 16. Vendors are not offering leasing programs anymore.

Multiple Choice

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

- ___ 17. QuickBiz’s Andrew Langston used his ___ to calculate all the costs that went into a delivery—such as car and truck purchases and maintenance, fuel costs, and driver salaries.
 - a. financial information system
 - c. data warehouse

- a. Dvorak
b. English
- c. Lazlo
d. QWERTY
- ___ 30. ___ keyboards are split in the middle, and the two parts are twisted outward to better fit the natural position of the forearms.
a. Ergonomic
b. QWERTY
- c. Dvorak
d. Comfort
- ___ 31. Unlike optical mark recognition, ___ is often used to try to interpret handwritten and printed texts not originally designed for source data entry.
a. ODR technology
b. OCR technology
- c. OC technology
d. OR technology
- ___ 32. Because ___ reduces the amount of paper in organizations, some of its most enthusiastic adopters are companies in paper-intensive fields such as law, retail, insurance, and banking.
a. processing
b. OMR
- c. imaging
d. printing
- ___ 33. Although ___ systems vary in sophistication, all receive voice input from a microphone or telephone and process it with software.
a. mp3
b. wma
- c. chat processing
d. speech recognition
- ___ 34. Images on a monitor are made up of small dots called _____.
a. dotties
b. pixels
- c. pxtels
d. grains
- ___ 35. Two qualities to check when purchasing a laser or ink-jet printer are speed, measured in _____, and density, measured in dots per inch (DPI).
a. characters per second (cps)
b. words per minute (wpm)
- c. pages per minute (PPM)
d. Kbytes per second (Kbps)
- ___ 36. There are two basic types of access modes in data storage: _____ and direct (random) access.
a. selective
b. indirect
- c. haphazard
d. sequential
- ___ 37. In recent years the most important impetus for acquisition of hard disks has been the construction of _____, large databases that maintain mainly consumer purchase records.
a. data houses
b. byte warehouses
- c. byte houses
d. data warehouses
- ___ 38. As an independent memory device, flash memory takes two main forms: as a memory card, and as a(n) _____.
a. USB port
b. USB drive
- c. index drive
d. index port
- ___ 39. Memory cards of the same storage capacity are significantly different in price due to _____.
a. storage materials
b. transfer rate
- c. durability
d. data quality
- ___ 40. Storage area network (SAN) identifies large quantities of data, called _____, and therefore can transfer and back up large amounts of data at a time.
a. data segments
b. word blocks
- c. word segments
d. data blocks

- ___ 41. The most common computer-related type of ___ is carpal tunnel syndrome.
- | | |
|--------|--------|
| a. RSI | c. SRI |
| b. CVS | d. VCS |
- ___ 42. While the great capacity and low cost of CDs are appealing, the ___ of magnetic hard disks is still significantly better than that of CDs and their faster relatives, DVDs.
- | | |
|------------------|----------------|
| a. durability | c. reliability |
| b. transfer rate | d. portability |
- ___ 43. Even if storage cost is not as attractive as that of CDs, portability and the fact that their ports are ubiquitous in PCs might push one toward selecting a ____.
- | | |
|--------------------|----------------|
| a. Zip disk | c. flash disk |
| b. USB flash drive | d. memory card |

Completion

Complete each statement.

44. _____ receive signals from outside the computer and transfer them into the computer.
45. Supercomputers contain multiple processors that let them perform _____ and run at great speeds.
46. _____ is the collective name for all personal computers (PCs), notebook computers, and handheld computers.
47. Processing more than one program, or processing several parts of a program, at the same time is often called _____, whereby each process is a thread.
48. The control unit uses special circuitry called a(n) _____, which synchronizes all tasks.
49. _____ is the number of bits per second that the bus can accommodate.
50. Some operating systems, such as Windows, let users map _____ keys into a Dvorak layout.
51. With a(n) _____, a user controls the cursor by moving his or her finger along a touch-sensitive pad.
52. In a(n) _____ monitor, the inner side of the screen has a layer of tiny phosphoric dots, which make up the pixels.
53. The most common type of flat-panel monitor is the _____.
54. A(n) _____ consists of one or more rigid platters installed in the same box that holds the CPU and other computer components, or attached externally to the computer, usually through a USB port.
55. _____ is a memory chip that can be rewritten and hold its content without electric power.
56. The fact that there is no need to wait for a disk to rotate in order to locate data—time that is called latency—makes _____ up to 250 times faster than magnetic disks.

57. DAS, NAS, and SAN often include _____, whereby data is replicated on different disks to enhance processing speed and fault-tolerance.