

## CHAPTER 3:

# HARDWARE BASICS: PERIPHERALS

### Multiple Choice:

1. \_\_\_\_\_ is the early operating system developed by Microsoft

- A. Monitor
- B. MS-DOS
- C. Mouse
- D. Video games

**Answer:** B     **Reference:** Bill Gates Rides the Digital Wave

**Difficulty:** Easy

2. \_\_\_\_\_ replaced MS-DOS.

- A. mouse
- B. Microsoft Windows.
- C. monitor
- D. trackball

**Answer:** B     **Reference:** Bill Gates Rides the Digital Wave

**Difficulty:** Easy

3. The \_\_\_\_\_ is the most common input device.

- A. mouse
- B. keyboard
- C. monitor
- D. trackball

**Answer:** B     **Reference:** The Keyboard

**Difficulty:** Easy

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4. The traditional QWERTY keyboard has been shown to cause:

- A. relaxation-caused injuries.
- B. repetitive-related sores.
- C. ergonomic vein problems.
- D. repetitive-stress injuries.

**Answer:** D      **Reference:** The Keyboard

**Difficulty:** Easy

5. In comparison to a traditional mouse, a newer type of mouse uses \_\_\_\_\_ to detect movement.

- A. microwave signals
- B. coaxial cable
- C. reflected light
- D. a touchpad space

**Answer:** C      **Reference:** Pointing Devices

**Difficulty:** Moderate

6. The most common pointing input device is the:

- A. trackball.
- B. mouse.
- C. touchscreen.
- D. touchpad.

**Answer:** B      **Reference:** Pointing Devices

**Difficulty:** Easy

7. The wheel located between the two standard buttons on a mouse is used to:

- A. click in Web pages.
- B. scroll.
- C. click and select items.
- D. jump to different Web pages.

**Answer:** B      **Reference:** Pointing Devices

**Difficulty:** Easy

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8. A touchpad responds to:
- A. light.
  - B. pressure.
  - C. clicking.
  - D. the sense of heat from fingertips.

**Answer: B**      **Reference:** Pointing Devices      **Difficulty:** Moderate

9. The pointing device that comes built in to a laptop computer can be any EXCEPT a:
- A. mouse.
  - B. trackball.
  - C. touchpad.
  - D. pointing stick.

**Answer: A**      **Reference:** Pointing Devices      **Difficulty:** Easy

10. Which input device resembles an upside-down mouse?
- A. Touchpad
  - B. Pointing stick
  - C. Trackpad
  - D. Trackball

**Answer: D**      **Reference:** Pointing Devices      **Difficulty:** Easy

11. A \_\_\_\_\_ uses pressure as a user presses it with a stylus to send signals.
- A. touchpad
  - B. TrackPoint
  - C. graphics tablet
  - D. trackpad

**Answer: C**      **Reference:** Pointing Devices      **Difficulty:** Moderate

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12. Bar-code readers use light to read:

- A. UPCs.
- B. UPSs.
- C. POSs.
- D. optical marks.

**Answer:** A     **Reference:** Reading Tools

**Difficulty:** Moderate

13. A standardized test that you may have taken in school could have been scored by a(n):

- A. optical mark reader.
- B. bar code reader.
- C. magnetic ink character reader.
- D. scanner.

**Answer:** A     **Reference:** Reading Tools

**Difficulty:** Challenging

14. \_\_\_\_\_ is used to read UPCs.

- A. Magnetic ink
- B. Light
- C. Magnetic tape
- D. A sensor

**Answer:** B     **Reference:** Reading Tools

**Difficulty:** Moderate

15. A \_\_\_\_\_ is used to read handwritten or printed text to make a digital image that is stored in memory.

- A. printer
- B. laser beam
- C. scanner
- D. touchpad

**Answer:** C     **Reference:** Reading Tools

**Difficulty:** Moderate

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16. OCR stands for:

- A. optical coding recognizer.
- B. ostensibly characterized reader.
- C. optical character recognition.
- D. original character reader.

**Answer:** C     **Reference:** Reading Tools

**Difficulty:** Moderate

17. OCR is:

- A. hardware.
- B. firmware.
- C. an input device.
- D. software.

**Answer:** D     **Reference:** Reading Tools

**Difficulty:** Moderate

18. A PDA is a handheld \_\_\_\_\_ computer.

- A. pen
- B. touchscreen
- C. touchpad
- D. trackball

**Answer:** A     **Reference:** Reading Tools

**Difficulty:** Easy

19. Until a computer can recognize handwriting, an input device must:

- A. store the information in secondary storage.
- B. optimize the information.
- C. digitize the information.
- D. show the information on a screen.

**Answer:** C     **Reference:** Digitizing Devices

**Difficulty:** Challenging

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20. A \_\_\_\_\_ is used to create a digital representation of a printed document or photograph.

- A. scanner
- B. monitor
- C. video digitizer
- D. videoconferencing device

**Answer:** A     **Reference:** Digitizing Devices

**Difficulty:** Easy

21. If employees reside in different parts of the country and need to meet monthly, useful computer technology would be:

- A. video-display software.
- B. video digitizing.
- C. videoconferencing.
- D. video scanning.

**Answer:** C     **Reference:** Digitizing Devices

**Difficulty:** Easy

22. \_\_\_\_\_ can interpret voice data into words that can be understood by the computer.

- A. Speech input hardware
- B. Talking software
- C. Word recognition software
- D. Speech recognition software

**Answer:** D     **Reference:** Digitizing Devices

**Difficulty:** Easy

23. A limitation of software that digitizes voice data is that it:

- A. is prohibitively expensive.
- B. must be trained to recognize individual voices.
- C. can only be used on high-end computers.
- D. cannot be used on laptop computers.

**Answer:** B     **Reference:** Digitizing Devices

**Difficulty:** Moderate

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24. For a computer to recognize and understand analog data, it must first be:

- A. sent to a mainframe for interpretation.
- B. analyzed by the ALU of the CPU.
- C. digitized.
- D. analyzed for viruses.

**Answer:** C      **Reference:** How It Works: Digitizing the Real World      **Difficulty:** Moderate

25. The display size of a monitor is measured:

- A. diagonally.
- B. horizontally.
- C. vertically.
- D. from center to the furthest corner.

**Answer:** A      **Reference:** Screen Output      **Difficulty:** Moderate

26. The higher the resolution of a monitor, the:

- A. larger the pixels.
- B. closer together the pixels.
- C. further apart the pixels.
- D. less clear the screen is.

**Answer:** B      **Reference:** Screen Output      **Difficulty:** Moderate

27. The display is also called a:

- A. monitor.
- B. resolution.
- C. DVD.
- D. random access memory.

**Answer:** A      **Reference:** Screen Output      **Difficulty:** Moderate

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**28.** An advantage that LCD monitors have over CRT monitors is that LCDs are:

- A. used only on laptops.
- B. more difficult to steal because they are considerably larger.
- C. less expensive.
- D. less bulky and lighter-weight.

**Answer:** D     **Reference:** Screen Output

**Difficulty:** Moderate

**29.** The colors in CRT video include all EXCEPT:

- A. red.
- B. green.
- C. yellow.
- D. blue.

**Answer:** C     **Reference:** How It Works: Color Video

**Difficulty:** Challenging

**30.** A pixel is a:

- A. picture element or dot on a screen.
- B. point of ink on a laser-printed page.
- C. point of ink on an ink-jet printed page.
- D. light beam used as an input device.

**Answer:** A     **Reference:** Screen Output

**Difficulty:** Challenging

**31.** An advantage that impact printers have over nonimpact printers is that impact printers:

- A. are quieter than nonimpact printers.
- B. can print multipart forms.
- C. are much less expensive.
- D. are smaller than nonimpact printers.

**Answer:** B     **Reference:** Paper Output

**Difficulty:** Easy



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32. The most common color printers are:

- A. lasers.
- B. dot-matrix.
- C. inkjet.
- D. line printers.

**Answer:** C      **Reference:** Paper Output

**Difficulty:** Easy

33. In a laser printer, what creates electrical charges on the drum that then attracts ink to those areas?

- A. Laser beam
- B. Magnetic beam
- C. Digitized beam
- D. Ion-charged beam

**Answer:** A      **Reference:** Paper Output

**Difficulty:** Moderate

34. Engineering blueprints are typically printed on a:

- A. laser printer.
- B. scanner.
- C. digitized tablet.
- D. plotter.

**Answer:** D      **Reference:** Paper Output

**Difficulty:** Moderate

35. For a faxed document with text to be edited, it must be processed by \_\_\_\_\_ software.

- A. modem
- B. fax modem
- C. OCR
- D. Word

**Answer:** C      **Reference:** Fax Machines and Fax Modems

**Difficulty:** Moderate

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36. If a user wants their computer to accept microphone input, it must have:

- A. a sound card.
- B. audio software.
- C. a synthesizer.
- D. speakers.

**Answer:** A     **Reference:** Output You Can Hear

**Difficulty:** Easy

37. The science of creating work environments that are safe and efficient for workers is known as:

- A. ergocentric.
- B. ectonomics.
- C. ergonomics.
- D. environmentally-sound physical planning.

**Answer:** C     **Reference:** Working Wisdom: Ergonomics and Health

**Difficulty:** Moderate

38. Input and output secondary storage devices include all of the following EXCEPT:

- A. magnetic tape drives.
- B. CD-ROMs.
- C. hard drives.
- D. floppy drives.

**Answer:** C     **Reference:** Storage Devices: Input Meets Output

**Difficulty:** Moderate

39. A common storage device on mainframe computers but not common on PCs is a:

- A. tape drive.
- B. DVD.
- C. floppy drive.
- D. hard drive.

**Answer:** A     **Reference:** Magnetic Tape

**Difficulty:** Moderate

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40. Unlike optical storage, magnetic tape is:

- A. laser-read.
- B. random.
- C. sequential.
- D. written with a laser beam.

**Answer:** C     **Reference:** Magnetic Tape

**Difficulty:** Challenging

41. How is a magnetic disk drive read?

- A. Randomly
- B. Sequentially
- C. Through a laser beam
- D. In sequential blocks

**Answer:** A     **Reference:** Magnetic Disks

**Difficulty:** Moderate

42. Most of the new laptop computers do not come with:

- A. CD-ROM
- B. DVD
- C. floppy drives
- D. internal hard drives

**Answer:** C     **Reference:** Magnetic Disks

**Difficulty:** Moderate

43. Zip disks can hold up to \_\_\_\_\_ of information.

- A. 100 MB
- B. 250 MB
- C. 750 MB
- D. 1,000 MB

**Answer:** C     **Reference:** Magnetic Disks

**Difficulty:** Challenging

44. CD-RW stands for:

- A. compact disc-rewritable.
- B. compact diskette, read, write.
- C. compact disc, read-only then write.
- D. compact diskette with random write capability.

**Answer:** A     **Reference:** Optical Disks

**Difficulty:** Easy

45. \_\_\_\_\_ is a type of erasable, reliable, and compact memory that is a viable alternative to disk storage.

- A. DVD disk
- B. RAM chip
- C. Flash memory
- D. CD-RW

**Answer:** C     **Reference:** Solid-State Storage Devices

**Difficulty:** Challenging

46. A tall, upright computer with relatively more expansion slots and bays is known as a(n):

- A. tower.
- B. desktop.
- C. skyscraper.
- D. iMac.

**Answer:** A     **Reference:** The Computer Systems: The Sum of Its Parts

**Difficulty:** Easy

47. Where is a printer attached?

- A. Parallel port
- B. Serial port
- C. SCSI
- D. Interface port

**Answer:** A     **Reference:** Ports and Slots Revisited

**Difficulty:** Challenging

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48. An internal modem is attached to a(n):

- A. bay.
- B. expansion slot.
- C. SCSI port.
- D. parallel port.

**Answer:** B     **Reference:** Ports and Slots Revisited

**Difficulty:** Challenging

49. What is it called when you can remove and replace devices without turning off your computer?

- A. Hot swapping
- B. Plug-N-Play
- C. Bay swap
- D. USB swapping

**Answer:** A     **Reference:** Port and Slots Revisited

**Difficulty:** Moderate

50. \_\_\_\_\_ allow(s) drives to be built into a computer system.

- A. Ports
- B. Expansion slots
- C. The Motherboard
- D. Bays

**Answer:** D     **Reference:** Internal and External Drives

**Difficulty:** Challenging

51. A USB allows a user to:

- A. add hardware devices without opening the box.
- B. add hardware through more advanced expansion slots.
- C. install software in a matter of seconds.
- D. add an additional monitor and printer simultaneously.

**Answer:** A     **Reference:** Expansion Made Easy

**Difficulty:** Challenging

52. \_\_\_\_\_ is a high-speed connection developed by Apple.

- A. Hot swap
- B. FireWire
- C. Modem-ready
- D. USB

**Answer:** B     **Reference:** Expansion Made Easy

**Difficulty:** Easy

53. USB is:

- A. platform dependent.
- B. only available on PCs.
- C. platform independent.
- D. only available on Macs.

**Answer:** C     **Reference:** Expansion Made Easy

**Difficulty:** Moderate

54. Compatibility, with regard to computers, refers to:

- A. the software doing the right job for the user.
- B. it being versatile enough to handle the job.
- C. the software being able to run on the computer.
- D. software running with other previously installed software.

**Answer:** C     **Reference:** Working Wisdom: Computer Consumer Concepts

**Difficulty:** Moderate

55. Connectivity for a new computer means:

- A. allowing a printer to be connected to it.
- B. having a modem and/or network connection to communicate with other computers.
- C. connecting the software to the hardware of the system.
- D. connecting a mouse, a keyboard, and a printer—all essential hardware pieces for the average user.

**Answer:** B     **Reference:** Working Wisdom: Computer Consumer Concepts

**Difficulty:** Moderate

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56. Hardware is worthless without \_\_\_\_\_, the real controller of a computer.

- A. software
- B. ports
- C. expansion cards
- D. a user

**Answer:** A      **Reference:** Software: The Missing Piece

**Difficulty:** Easy

**Fill in the Blank:**

57. I/O, in regard to a computer system, stands for \_\_\_\_\_.

**Answer:** Input/Output

**Reference:** Input: From Person to Processor

**Difficulty:** Easy

58. When an instructor writes on a(n) \_\_\_\_\_, all information is stored as a digital image on the computer.

**Answer:** smart whiteboard

**Reference:** Reading Tools

**Difficulty:** Challenging

59. \_\_\_\_\_ is the technology that recognizes individual characters on a page so they can be stored and eventually edited.

**Answer:** OCR or Optical character recognition

**Reference:** Reading Tools

**Difficulty:** Challenging

60. A(n) \_\_\_\_\_ is similar to a photocopy machine, but it stores a computerized file instead of a paper copy.

**Answer:** flatbed scanner

**Reference:** Digitizing Devices

**Difficulty:** Moderate

61. To conduct long-distance meetings in various locations, all computers need \_\_\_\_\_ software and hardware.

**Answer:** videoconferencing

**Reference:** Digitizing Devices

**Difficulty:** Easy

62. \_\_\_\_\_ software is invaluable for people with disabilities who are unable to use their hands.

**Answer:** Speech recognition

**Reference:** Digitizing Devices

**Difficulty:** Easy

63. The \_\_\_\_\_ of a computer monitor refers to the total number of pixels displayed on the screen.

**Answer:** resolution

**Reference:** Screen Output

**Difficulty:** Moderate

64. DPI, the resolution of a printer, for example, stands for \_\_\_\_\_.

**Answer:** dots per inch

**Reference:** How It Works: Color Printing

**Difficulty:** Moderate

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65. The type of monitor used on laptop computers is a(n) \_\_\_\_\_.

**Answer:** LCD or liquid crystal display    **Reference:** Screen Output    **Difficulty:** Moderate

66. MFP stands for \_\_\_\_\_.

**Answer:** multifunction printer    **Reference:** Paper Output    **Difficulty:** Moderate

67. A(n) \_\_\_\_\_ printer produces high quality text and graphics, but is relatively expensive.

**Answer:** laser    **Reference:** Paper Output    **Difficulty:** Easy

68. An inkjet printer used to print high-quality photographs is called a(n) \_\_\_\_\_.

**Answer:** photo printer    **Reference:** Paper Output    **Difficulty:** Easy

69. \_\_\_\_\_ printers combine a scanner, a laser or inkjet printer, and a fax modem into one device.

**Answer:** Multifunction or MFP    **Reference:** Paper Output    **Difficulty:** Moderate

70. A(n) \_\_\_\_\_ translates documents into signals that can be sent over phone wires and decoded by a receiving fax machine.

**Answer:** fax modem    **Reference:** Fax Machines and Fax Modems    **Difficulty:** Moderate

71. If a user wishes to play music, the computer must include a(n) \_\_\_\_\_.

**Answer:** sound card    **Reference:** Output You Can Hear    **Difficulty:** Easy

72. A(n) \_\_\_\_\_ can be used to produce music.

**Answer:** synthesizer    **Reference:** Output You Can Hear    **Difficulty:** Moderate

73. \_\_\_\_\_ is a painful affliction of the wrist and hand that results from repeating the same movements over long periods.

**Answer:** Carpel tunnel syndrome    **Reference:** Working Wisdom: Ergonomics and Health  
**Difficulty:** Easy

74. A magnetic disk, hard disk, or a floppy disk, use \_\_\_\_\_ access.

**Answer:** random    **Reference:** Magnetic Disks    **Difficulty:** Moderate

75. A CD-ROM is a type of \_\_\_\_\_ drive.

**Answer:** optical disk    **Reference:** Optical Disks    **Difficulty:** Moderate

76. A DVD can hold up to \_\_\_\_\_ of information.

**Answer:** 17GB    **Reference:** Optical Disks    **Difficulty:** Challenging



77. \_\_\_\_\_ is a type of erasable memory chip that is low-energy, quiet, and portable.

**Answer:** Flash memory

**Reference:** Solid-State Storage Devices

**Difficulty:** Challenging

**Matching:**

78. Match the following terms to their meanings:

- |                           |  |
|---------------------------|--|
| I. serial port            | A. sends/receives bits in a group                                |
| II. parallel port         | B. agreed upon benchmarks so devices can be used on all hardware |
| III. video port           | C. sends/receives one bit at a time                              |
| IV. USB                   | D. used to plug in an external drive or other peripheral         |
| V. SCSI                   | E. used to plug a monitor into the video board                   |
| VI. interface standards   | F. roughly 100 times faster than a PC serial port                |
| VII. platform independent | G. a USB device can work on a PC or a Mac                        |
| VIII. FireWire            | H. a new Interface standard developed by Apple                   |

**Answers:** C, A, E, F, D, B, G, H

**Difficulty:** Challenging

**Reference:** The Computer Systems: The Sum of Its Parts

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79. Match the following terms to their meanings:

- |                |   |
|----------------|---|
| I. DVD-ROM     | A. play a movie, rewritable                       |
| II. DVD-RW     | B. play music, rewritable                         |
| III. CD-RW     | C. record   |
| IV. CD-ROM     | D. play a movie, not recordable                   |
| V. CD-R        | E. play music, only readable                      |
| VI. Burn       | F. play music, cannot write to it                 |
| VII. DVD/CD-RW | G. play movies, play music, record and erase data |

**Answers:** D, A, B, F, E, C, G

**Difficulty:** Moderate

**Reference:** Storage Devices: Input Meets Output