

Chapter 1: Computer Hardware

Multiple Choice

1. The earliest calculators were manual counting devices, such as the ____.

- a. abacus
- b. slide rule
- c. control unit
- d. Analytical Engine

ANSWER:

a

2. ____-generation computers used vacuum tubes, cylindrical tubes that controlled the flow of electrons.

- a. First
- b. Second
- c. Third
- d. Fourth

ANSWER:

a

3. In 1971, Ted Hoff made computer technology faster, smaller, and less expensive via the deployment of the ____.

- a. transistor
- b. integrated circuit
- c. microprocessor
- d. hard drive

ANSWER:

c

4. The ____ contains most of the electronic circuitry in the computer.

- a. monitor
- b. EEPROM
- c. SRAM
- d. system unit

ANSWER:

d

5. A ____ is a pointing device with a ball anchored inside a casing.

- a. stylus
- b. trackball
- c. touchpad
- d. scroll wheel

ANSWER:

b

6. A ____ is a visual display that responds to the touch of your finger, hand, stylus, or digital pen to enter data and commands.

- a. touchpad
- b. platter
- c. window
- d. touch screen

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ANSWER:

d

7. An input device called a(n) _____ reads and captures information on a physical page and then creates an image file.

- a. processor
- b. scanner
- c. optical mouse
- d. text-to-speech unit

ANSWER:

b

8. _____ accepts voice input and interprets it as computer commands.

- a. Voice recognition
- b. A scanner
- c. A biometric device
- d. The register

ANSWER:

a

9. A _____ is a vertical stick or lever that pivots in a 360-degree range of motion.

- a. plotter
- b. joystick
- c. stylus
- d. digital pen

ANSWER:

b

10. A _____ input device is a data-collection machine that creates a digital imprint of a physical characteristic, and then transfers that information to a host system for review.

- a. touchpad
- b. cloud storage
- c. nonvolatile
- d. biometric

ANSWER:

d

11. The _____ keypad lets you move around a document and scroll up and down.

- a. navigation
- b. numeric
- c. function
- d. media control

ANSWER:

a

12. _____ control keys let you control the playback of digital music or video; they might also include keys for controlling the volume and screen brightness.

Function

- a. Internet
- b. Navigation
- c. Media

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- d. Function

ANSWER:

c

13. Using a pointing device to move an object on the screen is called ____.

- a. dragging
- b. pointing
- c. dropping
- d. scanning

ANSWER:

a

14. Touch and release an object two times to complete the ____ gesture.

- a. pinch
- b. stretch
- c. double-tap
- d. press-and-hold

ANSWER:

c

15. Move two fingers together to complete the ____ gesture.

- a. swipe
- b. drag
- c. stretch
- d. pinch

ANSWER:

d

16. Touch and hold an object and then move it with a fingertip to complete the ____ gesture.

- a. drag
- b. swipe
- c. double-tap
- d. pinch

ANSWER:

a

17. Most flat panel monitors use either LCD or ____ technology.

- a. LDC
- b. LTD
- c. LED
- d. LYD

ANSWER:

c

18. LCD stands for ____.

- a. Level 2 Cache Display
- b. Light Crystal Display
- c. Liquid Circuit Display
- d. Liquid Crystal Display

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ANSWER:

d

19. Some large-format printers called _____ use charged wires to produce high-quality drawings for professional applications.

- a. laser printers
- b. scanners
- c. mobile printers
- d. plotters

ANSWER:

d

20. _____ cables transfer uncompressed video data and digital audio data among compliant devices.

- a. HDMI
- b. SSD
- c. EEPROM
- d. LCD

ANSWER:

a

21. A _____ is an audio output device that converts text to speech.

- a. sampler
- b. voice synthesizer
- c. headset
- d. multifunction device

ANSWER:

b

22. The _____ is the brain of a computer.

- a. ALU
- b. SSD
- c. CPU
- d. LED

ANSWER:

c

23. The ALU temporarily holds data, such as two numbers to add, in _____.

- a. machine cycles
- b. cache
- c. cores
- d. registers

ANSWER:

d

24. _____ is the second step in the computer machine cycle.

- a. Fetch
- b. Decode
- c. Execute
- d. Store

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ANSWER:

b

25. _____ is the third step in the computer machine cycle.

- a. Fetch
- b. Decode
- c. Execute
- d. Store

ANSWER:

c

26. _____ is the fourth step in the computer machine cycle.

- a. Fetch
- b. Decode
- c. Execute
- d. Store

ANSWER:

d

27. _____ speed is measured in hertz.

- a. Clock
- b. Printer
- c. Word
- d. Swap file

ANSWER:

a

28. _____ is storage space for recently or frequently used data in a place that is quick and easy to access.

- a. EEPROM
- b. SSD
- c. SRAM
- d. Cache

ANSWER:

d

29. Bus width is also called _____.

- a. clock speed
- b. word size
- c. L3 cache
- d. a machine cycle

ANSWER:

b

30. A _____ is a test run by a laboratory or other organization to determine processor speed and other performance factors.

- a. power-on self test
- b. file swap
- c. benchmark
- d. machine cycle

ANSWER:

c

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31. _____ is an 8-bit coding scheme.

- a. Binary
- b. DRAM
- c. Unicode
- d. ASCII

ANSWER:

d

32. To digitize an image, the image is treated as a series of colored dots, or _____.

- a. pixels
- b. pages
- c. samples
- d. bytes

ANSWER:

a

33. Random access memory (RAM) is stored on a set of chips called a memory _____.

- a. bus
- b. module
- c. control unit
- d. platter

ANSWER:

b

34. _____ chips need to be recharged constantly or they lose their data.

- a. BIOS
- b. ROM
- c. DRAM
- d. SRAM

ANSWER:

c

35. _____ is the memory permanently installed on your system when your computer is manufactured.

Cache

- a. RAM
- b. Cache
- c. Virtual memory
- d. ROM

ANSWER:

d

36. The _____ includes the instructions for starting up your computer as it performs the power-on self test.

- a. BIOS
- b. RFID
- c. RAM
- d. L2 cache

ANSWER:

a

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37. When an operating system uses _____, it swaps files between RAM and the hard drive to avoid running out of RAM.

- a. EEPROM
- b. cloud storage
- c. virtual memory
- d. firmware

ANSWER:

c

38. _____ is the first step in the computer machine cycle.

- a. Fetch
- b. Decode
- c. Execute
- d. Store

ANSWER:

a

39. To use the _____ of mobile devices, you press the image of a key with your finger, a digital pen, or a stylus.

- a. touch screen keyboard
- b. mouse
- c. joystick
- d. motion-sensing controller

ANSWER:

a

40. Most wired mice connect through a(n) _____.

- a. USB port
- b. serial port
- c. input jack
- d. VGA port

ANSWER:

a

41. _____ contain smart sensors to monitor your vital signs and collect information about other physical indicators.

- a. Activity trackers
- b. MIDI devices
- c. HMDs
- d. ASCIIs

ANSWER:

a

42. A(n) _____ is a small, flat computer with a touch-sensitive screen that accepts input from a digital pen, a stylus, or your fingertips.

- a. tablet
- b. laptop
- c. desktop computer
- d. all-in-one desktop

ANSWER:

a

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43. A ____ includes tools that let you make phone calls through cellular networks.

- a. smartphone
- b. tablet
- c. laptop
- d. desktop computer

ANSWER:

a

44. ____ lets you store your data remotely and access it with any device connected to the Internet.

- a. Cloud storage
- b. Volatile memory
- c. ROM
- d. Flash memory

ANSWER:

a

45. A magnetic hard drive is made up of one or more disks called ____ that spin on a spindle.

- a. platters
- b. compact discs
- c. SSDs
- d. optical media

ANSWER:

a

46. ____ store data as light and dark spots on a disc.

- a. Optical media
- b. Solid state drives
- c. Magnetic hard drives
- d. Random access memory modules

ANSWER:

a

47. The part of the hard disk used by virtual memory is called a ____ file.

- a. swap
- b. cloud
- c. volatile
- d. static

ANSWER:

a

48. ____ are speakers small enough to place in your ears.

- a. Earbuds
- b. Headphones
- c. Headsets
- d. Earplugs

ANSWER:

a

49. A(n) ____ is the smallest unit of information handled by a computer.

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- a. bit
- b. byte
- c. hexadecimal
- d. ASCII

ANSWER:

a

50. A _____ is approximately one million bytes.

- a. kilobyte
- b. megabyte
- c. gigabyte
- d. terabyte

ANSWER:

a

Matching

Match each term with its correct definition.

- | | |
|-----------------|-----------|
| a. touchpad | b. mouse |
| c. trackball | d. stylus |
| e. touch screen | |

51. A pointing device that fits under your hand.

ANSWER:

b

52. A small plastic or metal device shaped like a pen that you use with an on-screen keyboard.

ANSWER:

d

53. A flat surface usually built into laptop keyboards.

ANSWER:

a

54. An older pointing device with a ball anchored inside a casing.

ANSWER:

c

55. A visual display that responds to the touch of your finger, hand, stylus, or digital pen.

ANSWER:

e

True / False

56. First-generation computers contained many components still in use today.

- a. True
- b. False

ANSWER:

False

57. Toner is a fine powder that is sealed when heated on the page.

- a. True
- b. False

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ANSWER: True

58. Processor performance is determined in part by the number of cores, or processor units, on a CPU.

- a. True
- b. False

ANSWER: True

59. The RAM chip is attached to the motherboard and contains the BIOS.

- a. True
- b. False

ANSWER: False

60. A stylus is more powerful than a digital pen because it can include an electronic eraser or programmable buttons.

- a. True
- b. False

ANSWER: False

61. A gamepad is a handheld console with buttons and other input mechanisms you typically press with your thumbs to play a game.

- a. True
- b. False

ANSWER: True

62. Biometric technology analyzes a person's unique physical characteristics to confirm identity and grant access to computer systems.

- a. True
- b. False

ANSWER: True

63. A scanner creates hard copy output on paper, film, photo paper, and other media.

- a. True
- b. False

ANSWER: False

64. Plotters, sometimes referred to as data or video plotters, let you display computer output on a wall.

- a. True
- b. False

ANSWER: False

65. Many videos include the option to turn on subtitles, or closed captions so that users can watch the action on screen and read what is being said in the voice-over.

- a. True
- b. False

ANSWER: True

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66. The motherboard is the main circuit board that houses much of a computer's electronics.

- a. True
- b. False

ANSWER: True

67. Solid state storage uses spinning disc technology.

- a. True
- b. False

ANSWER: False

68. Optical media include CDs, DVDs, and Blu-ray discs (BDs).

- a. True
- b. False

ANSWER: True

69. Computer memory holds data and programs as they are being processed by the hard drive.

- a. True
- b. False

ANSWER: False

70. The binary number system consists of only two digits: 0 and 1.

- a. True
- b. False

ANSWER: True

71. Two of the most important parts of the CPU are the control unit and the algorithm loop unifier (ALU).

- a. True
- b. False

ANSWER: False

72. A multicore processor is generally slower and less powerful than a single core processor.

- a. True
- b. False

ANSWER: False

73. Display devices labeled 1080p or 1080i show images and video in high definition (HD), which has a resolution of 1920×1080 .

- a. True
- b. False

ANSWER: True

74. Untraditional display devices include wearable goggles, also called head-mounted displays (HMDs).

- a. True
- b. False

Name _____ Class _____ Date _____
: _____ : _____ e: _____

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ANSWER:

True

75. Any finger motion you perform is called a swipe.

- a. True
- b. False

ANSWER:

False