

# Computer Systems Organization Quiz: Input/Output

Points: 65/80

1. Full Name \*

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✓ **Correct** 1/1 Points

3. A digital computer consists of an interconnected system of processors, memories, and \_\_\_\_ devices. \*

- ☐ arithmetic
- ☐ control
- ☒ input/output
- ☐ bus

✓ **Correct** 1/1 Points

4. The usual arrangement in a personal computer is a metal box with a large printed circuit board called the \_\_\_\_ . \*

- ☐ bus
- ☒ motherboard
- ☐ controller
- ☐ cable

✓ **Correct** 1/1 Points

5. Each I/O device consists of two parts: one containing most of the electronics, called the \_\_\_\_, and one containing the I/O device itself. \*

- ☐ bus
- ☐ cable
- ☒ controller
- ☐ ALU

✓ **Correct** 1/1 Points

6. The controller connects to its device by a \_\_\_\_ attached to a connector on the back of the box. \*

- ☐ bus
- ☒ cable
- ☐ register
- ☐ memory

✓ **Correct** 1/1 Points

7. A controller that reads or writes data to or from memory without CPU intervention is said to be performing \_\_\_\_ . \*

- ☐ interrupt
- ☐ cycle stealing
- ☐ bus arbitration
- ☒ Direct Memory Access

✓ **Correct** 1/1 Points

8. When the transfer is completed, the controller normally causes an \_\_\_\_, forcing the CPU to immediately suspend running its current program. \*

- ☐ DMA
- ☒ interrupt
- ☐ cycle steal
- ☐ arbitration

✓ **Correct** 1/1 Points

9. A chip called a bus \_\_\_\_ decides who goes next when the CPU and an I/O controller want to use the bus at the same time. \*

- ☐ controller
- ☒ arbiter
- ☐ interrupt
- ☐ DMA

✓ **Correct** 1/1 Points

10. I/O devices are given preference over the CPU on the bus because they cannot be stopped without \_\_\_\_ loss. \*

- ☐ time
- ☐ power
- ☒ data
- ☐ cycle

✓ **Correct** 1/1 Points

11. The process where an I/O device requests and is granted the bus, slowing down the computer, is called \_\_\_\_ . \*

- ☐ DMA
- ☐ interrupt
- ☐ arbitration
- ☒ cycle stealing

✗ **Incorrect** 0/1 Points

12. The old PC bus, now called the \_\_\_\_ bus, has been relegated to ancient systems and computer museums. \*

- ☒ PCI
- ☐ PCIe
- ☐ ISA
- ☐ EISAC

✓ **Correct** 1/1 Points

13. The \_\_\_\_ bus was designed by Intel and supports plug-and-play. \*

- ☐ ISA
- ☒ PCI
- ☐ PCIe
- ☐ EISAC

✗ **Incorrect** 0/1 Points

14. Unlike PCI, which is a shared bus, PCIe is \_\_\_\_ and serial. \*

- ☐ parallel
- ☐ point-to-point
- ☒ multiplexed
- ☐ arbitrated

✓ **Correct** 1/1 Points

15. In PCIe, a \_\_\_\_ is a wire pair for communication, and devices can have up to 32 of them. \*

- ☐ bus
- ☐ slot
- ☒ lane
- ☐ bridge

✓ **Correct** 1/1 Points

16. Computer terminals consist of two parts: a \_\_\_\_ and a monitor. \*

- ☐ mouse
- ☐ printer
- ☒ keyboard
- ☐ bus

✓ **Correct** 1/1 Points

17. The original IBM PC came with a keyboard that had a snap-action switch under each key that gave tactile \_\_\_\_ and made a click. \*

- ☐ resistance
- ☒ feedback
- ☐ depression
- ☐ release

✓ **Correct** 1/1 Points

18. Nowadays, cheaper keyboards have keys that just make mechanical contact when \_\_\_\_ \*

- ☐ released
- ☐ clicked
- ☒ depressed
- ☐ interrupted

✓ **Correct** 1/1 Points

19. When a key is depressed on a personal computer, an \_\_\_\_ is generated. \*



- ☐ DMA
- ☒ interrupt
- ☐ cycle
- ☐ bus request

✓ **Correct** 1/1 Points

20. Handling of multikey sequences involving SHIFT, CTRL, and ALT is done entirely in \_\_\_\_ . \*

- ☐ hardware
- ☐ firmware
- ☒ software
- ☐ the controller

✓ **Correct** 1/1 Points

21. The problem where touch screens cannot distinguish between two sets of finger positions blocking the same beams is called \_\_\_\_ . \*

- ☐ multitouch
- ☒ ghosting
- ☐ capacitance
- ☐ resistance

✓ **Correct** 1/1 Points

22. Infrared touch screens use \_\_\_\_ blocked by fingers to detect position. \*

- ☐ wires
- ☐ resistors
- ☒ beams
- ☐ capacitors

✓ **Correct** 1/1 Points

23. Modern multitouch screens use \_\_\_\_ capacitive technology. \*

- ☐ resistive
- ☐ infrared
- ☒ projected
- ☐ acoustic

✓ **Correct** 1/1 Points

24. The most common flat panel display technology is \_\_\_\_ . \*

- ☐ CRT
- ☒ LCD
- ☐ OLED
- ☐ Plasma

✓ **Correct** 1/1 Points

25. TFT displays are \_\_\_\_ matrix displays using thin film transistors. \*

- ☐ passive
- ☒ active
- ☐ twisted
- ☐ nematic

✓ **Correct** 1/1 Points

26. Indexed color is used to reduce \_\_\_\_ usage by using a palette. \*

- ☐ CPU
- ☐ bus
- ☒ video RAM
- ☐ interrupt

✓ **Correct** 1/1 Points

27. The three kinds of mice are mechanical, optical, and \_\_\_\_ . \*

- ☐ laser
- ☐ wireless
- ☐ trackball
- ☒ optomechanical

✓ **Correct** 1/1 Points

28. An optical mouse detects movement by an LED and photodetector analyzing \_\_\_\_ imperfections. \*

- ☐ pad line
- ☒ surface
- ☐ ball rotation
- ☐ wheel turn

✓ **Correct** 1/1 Points

29. The unit sometimes used for mouse movement distance is the \_\_\_\_ . \*

- ☐ pixel
- ☐ inch
- ☒ mickey
- ☐ byte

✓ **Correct** 1/1 Points

30. Software handles mouse data by converting relative movement to \_\_\_\_ position. \*

- ☐ relative
- ☒ absolute
- ☐ interrupt
- ☐ DMA

✗ **Incorrect** 0/1 Points

31. An optomechanical mouse uses light slits and \_\_\_\_ for detection. \*

- ☐ cameras
- ☐ detectors
- ☒ wheels
- ☐ balls

✓ **Correct** 1/1 Points

32. The Wiimote provides motion-sensing using a 3-axis \_\_\_\_ and IR camera. \*

- ☐ gyroscope
- ☒ accelerometer
- ☐ compass
- ☐ GPS

✓ **Correct** 1/1 Points

33. The Kinect senses user input using computer \_\_\_\_ and a depth camera. \*

- ☐ graphics
- ☐ audio
- ☒ vision
- ☐ touch

✗ **Incorrect** 0/1 Points

34. Kinect uses \_\_\_\_ lighting with IR dots to compute depth. \*

- ☐ natural
- ☐ flash
- ☐ structured
- ☒ ambient

✓ **Correct** 1/1 Points

35. The sensor bar in the Wii contains IR \_\_\_\_ for pointing. \*

- ☐ cameras
- ☒ LEDs
- ☐ accelerometers
- ☐ microphones

✓ **Correct** 1/1 Points

36. The Wiimote handles fine-grained pointing using its camera viewing the sensor bar's \_\_\_\_ \*

- ☐ buttons
- ☒ LEDs
- ☐ screen
- ☐ cables

✗ **Incorrect** 0/1 Points

37. The heart of a laser printer is a rotating precision \_\_\_\_ . \*

- ☒ nozzle
- ☐ cartridge
- ☐ drum
- ☐ ribbon

✓ **Correct** 1/1 Points

38. In a laser printer, an image is formed by charging the drum, laser discharging, and \_\_\_\_ attraction. \*

- ☐ ink
- ☐ wax
- ☒ toner
- ☐ dye



✓ **Correct** 1/1 Points

39. Halftoning uses cells with varying black pixels to represent \_\_\_\_ . \*

- ☐ color
- ☒ grayscale
- ☐ compression
- ☐ resolution

✓ **Correct** 1/1 Points

40. Printers use the \_\_\_\_ color model. \*

- ☐ RGB
- ☒ CMYK
- ☐ HSV
- ☐ YUV

✓ **Correct** 1/1 Points

41. Black is added in CMYK for better black than mixing CMY, and to \_\_\_\_ ink. \*

- ☐ increase
- ☒ save
- ☐ color
- ☐ dry

✓ **Correct** 1/1 Points

42. The set of producible colors by a printer is called its \_\_\_\_ . \*

- ☐ resolution
- ☐ speed
- ☒ gamut
- ☐ halftone

✗ **Incorrect** 0/1 Points

43. Piezoelectric inkjets work by deforming a \_\_\_\_ to eject ink.

- ☒ resistor
- ☐ bubble
- ☐ crystal
- ☐ laser

✓ **Correct** 1/1 Points

44. Bubblejet printers are a type of \_\_\_\_ inkjet. \*

- ☐ piezoelectric
- ☒ thermal
- ☐ solid
- ☐ dye

✓ **Correct** 1/1 Points

45. Solid ink printers use melting \_\_\_\_ blocks. \*

- ☐ toner
- ☐ dye
- ☒ wax
- ☐ bubble

✗ **Incorrect** 0/1 Points

46. Dye sublimation printers vaporize dye for \_\_\_\_ colors. \*

- ☐ discrete
- ☒ halftone
- ☐ continuous
- ☐ indexed

✓ **Correct** 1/1 Points

47. A modem \_\_\_\_ a carrier signal for transmission over a telephone line. \*

- ☐ stores
- ☐ prints
- ☒ modulates
- ☐ displays

✗ **Incorrect** 0/1 Points

48. The baud rate is the number of signal \_\_\_\_ per second. \*

- ☒ bits
- ☐ changes
- ☐ voltages
- ☐ frequencies

✓ **Correct** 1/1 Points

49. Full-duplex allows transmission in both directions \_\_\_\_ . \*

- ☐ alternately
- ☐ one way
- ☒ simultaneously
- ☐ never

✓ **Correct** 1/1 Points

50. ADSL is asymmetric with more bandwidth allocated to the \_\_\_\_ direction. \*

- ☐ upstream
- ☒ downstream
- ☐ voice
- ☐ control

✓ **Correct** 1/1 Points

51. In ADSL, a \_\_\_\_ separates the voice and data signals at the customer premises. \*

- ☐ modem
- ☐ DSLAM
- ☐ NID
- ☒ splitter

✓ **Correct** 1/1 Points

52. The DSLAM is a Digital Subscriber Line Access \_\_\_\_ . \*

- ☐ Modem
- ☒ Multiplexer
- ☐ Module
- ☐ Manager

### Computer Systems Organization Quiz: Input/Output (continued)

✓ **Correct** 1/1 Points

53. In cable Internet, downstream is faster because more spectrum is available above \_\_\_\_ . \*

- ☐ upstream
- ☐ FM
- ☒ TV
- ☐ voice

✗ **Incorrect** 0/1 Points

54. Upstream in cable uses time-division in \_\_\_\_ for packets. \*

- ☐ channels
- ☐ minislots
- ☐ frequencies
- ☒ bands

✓ **Correct** 1/1 Points

55. Cable modems perform \_\_\_\_ to measure distance to the headend for timing. \*

- ☐ modulation
- ☐ splitting
- ☒ ranging
- ☐ multiplexing

✓ **Correct** 1/1 Points

56. Cable modems handle contention by random wait and \_\_\_\_ . \*

- ☐ request
- ☒ retry
- ☐ assign
- ☐ allocate

✗ **Incorrect** 0/1 Points

57. In digital cameras, film is replaced by a rectangular array of \_\_\_\_ . \*

- ☐ films
- ☐ lenses
- ☐ CCDs
- ☒ pixels



✓ **Correct** 1/1 Points

58. The Bayer filter separates colors on CCDs, with two \_\_\_\_ for eye sensitivity. \*

- ☐ red
- ☐ blue
- ☒ green
- ☐ yellow

✓ **Correct** 1/1 Points

59. Autofocus maximizes \_\_\_\_ detail by moving the lens. \*

- ☐ low-frequency
- ☐ color
- ☒ high-frequency
- ☐ exposure

✓ **Correct** 1/1 Points

60. White balance corrects colors for the type of \_\_\_\_ . \*

- ☐ lens
- ☒ light
- ☐ CCD
- ☐ compression Correct answer: B

✓ **Correct** 1/1 Points

61. A common compression format in digital cameras is \_\_\_\_ \*

- ☐ GIF
- ☐ PNG
- ☒ JPEG
- ☐ BMP

✓ **Correct** 1/1 Points

62. Images are transferred from digital cameras to computers usually via \_\_\_\_ cable. \*

- ☐ Ethernet
- ☐ serial
- ☒ USB
- ☐ parallel

✓ **Correct** 1/1 Points

63. ASCII characters use \_\_\_\_ bits, allowing for 128 characters. \*

- ☐ 6
- ☒ 7
- ☐ 8
- ☐ 16

✓ **Correct** 1/1 Points

64. ASCII codes 0 to 1F (hex) are \_\_\_\_ characters. \*

- ☐ letter
- ☐ digit
- ☒ control
- ☐ symbol

✓ **Correct** 1/1 Points

65. Unicode initially had \_\_\_\_ code points with 16 bits. \*

- ☐ 256
- ☒ 65,536
- ☐ 1,114,112
- ☐ 128

✓ **Correct** 1/1 Points

66. In Unicode, diacritical marks are separate to \_\_\_\_ code points. \*

- ☐ increase
- ☒ save
- ☐ complicate
- ☐ expand

✓ **Correct** 1/1 Points

67. UTF-8 is a \_\_\_\_ length encoding of Unicode. \*

- ☐ fixed
- ☒ variable
- ☐ 7-bit
- ☐ 32-bit

✗ **Incorrect** 0/1 Points

68. The advantage of UTF-8 is ASCII compatibility and \_\_\_\_ length for efficiency. \*

- ☒ fixed
- ☐ variable
- ☐ long
- ☐ short

✗ **Incorrect** 0/1 Points

69. In UTF-8, multi-byte sequences start with high bit \_\_\_\_ in the first byte. \*

- ☐ 0
- ☐ 1
- ☐ 10
- ☒ 11

✗ **Incorrect** 0/1 Points

70. Continuation bytes in UTF-8 start with \_\_\_\_ . \*

☐ 00

☐ 01

☐ 10

☒ 11

✓ **Correct** 1/1 Points

71. UTF-8 is \_\_\_\_ -synchronizing, allowing recovery from errors. \*

☐ not

☒ self

☐ partially

☐ fully

✓ **Correct** 1/1 Points

72. The maximum bytes per character in UTF-8 is \_\_\_\_ . \*

☐ 2

☐ 3

☒ 4

☐ 6

✓ **Correct** 1/1 Points

73. UTF-8 is dominant on the Web due to efficiency for \_\_\_\_ and support for Unicode.

\*

☐ non-ASCII

☒ ASCII

☐ control

☐ symbols

✓ **Correct** 1/1 Points

74. Extended Unicode has \_\_\_\_ planes. \*

☐ 1

☒ 17

☐ 256

☐ 65,536

✓ **Correct** 1/1 Points

75. Unicode blocks are multiples of \_\_\_\_ code points. \*

- ☐ 8
- ☒ 16
- ☐ 32
- ☐ 64

✓ **Correct** 1/1 Points

76. The Han ideographs in Unicode occupy about \_\_\_\_ code points. \*

- ☐ 256
- ☐ 1,024
- ☒ 20,992
- ☐ 65,536

✓ **Correct** 1/1 Points

77. Unicode has \_\_\_\_ private use code points. \*



- ☐ 256
- ☒ 6,400
- ☐ 20,992
- ☐ 137,468

✗ **Incorrect** 0/1 Points

78. Not all Japanese kanji are in Unicode due to limited \_\_\_\_ . \*

- ☐ need
- ☐ code points
- ☒ fonts
- ☐ software

✓ **Correct** 1/1 Points

79. Dibit phase encoding transmits \_\_\_\_ bits per interval. \*

- ☐ 1
- ☒ 2
- ☐ 3
- ☐ 4

✓ **Correct** 1/1 Points

80. Modem speed is limited by telephone line \_\_\_\_ . \*

- ☐ length
- ☒ bandwidth
- ☐ voltage
- ☐ modulation

✗ **Incorrect** 0/1 Points

81. Technically, broadband means multiple \_\_\_\_ channels. \*

- ☐ data
- ☐ signaling
- ☐ voice
- ☒ frequency

✓ **Correct** 1/1 Points

82. ADSL uses many channels like 250 \_\_\_\_ in parallel for speed. \*

☐ wires

☐ cables

☒ modems

☐ lines

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