

Exam

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) What is the difference between data and information?

A) Data represents a process. Information is the stored data.

1) _____

B) They are essentially the same thing.

C) Data is numbers. Information is words.

D) Data represents a fact. Information is data that has been organized.

2) Computers use a _____ language consisting of 0s and 1s.

A) symbol B) byte C) binary D) system

2) _____

3) In binary language, each letter of the alphabet, each number, and each special symbol is made up of a unique combination of eight _____. 3) _____

A) bits B) bytes C) characters D) kilobytes

4) Which of the following is the smallest unit of measure?

A) Megabyte B) Petabyte C) Terabyte D) Gigabyte

4) _____

5) Apple's macOS and Microsoft Windows are examples of _____ software.

A) communication B) application

5) _____

C) operating system D) utility

6) An Apple iPad and a Microsoft Surface are examples of _____ computers.

A) tablet B) desktop C) laptop D) netbook

6) _____

7) Which of the following computers is large, expensive, and is designed to execute a few programs as fast as possible?

7) _____

A) Mainframe computer B) Desktop computer

C) Supercomputer D) Embedded computer

8) _____ computers are specially designed computer chips that reside inside other devices, such as a car. 8)

A) Tablet B) Desktop C) Netbook D) Embedded

9) A keyboard and touch screen are the most common of _____ devices.

A) output B) input C) storage D) processing

9) _____

10) A(n) _____ is an input device that looks like a pen.

A) stylus B) pointer C) joystick D) e-rod

10) _____

11) Each of these is a basic type of a touch screen, EXCEPT _____.

A) capacitive B) surface acoustic wave

11) _____

C) resistive D) reflective

12) The number of pixels displayed on the screen is known as _____.

A) brightness resolution B) aspect ratio

12) _____

C) screen resolution D) contrast ratio

13) The most common type of monitor for laptops and desktop computers is a(n) _____.

A) light-emitting diode (LED) B) organic light-emitting diode (OLED)

13) _____

C) liquid crystal display (LCD) D) cathode ray tube (CRT)

14) The two main categories of home and office printers are _____ and laser printers.

A) thermal B) cloud-based C) large format D) inkjet

14) _____

15) _____ printers use static electricity and toner and heat set the image on the page very quickly.

A) Thermal B) Laser C) Inkjet D) Nonimpact

15) _____

16) The _____ contains the central electronic components of the computer.

A) input unit B) arithmetic/logic unit

16) _____

C) motherboard D) peripheral unit

17) A _____ enables your computer to connect to other computers or to the Internet.

A) controller card B) sound card

17) _____

C) network interface card (NIC) D) video card

18) The computer stores currently used programs and data in _____.

A) CPU B) RAM C) ROM D) USB

18) _____

19) RAM is a _____ storage location.

- A) volatile B) peripheral C) nonvolatile D) permanent

19) _____

20) The area that holds all the startup instructions the computer needs to start is _____.

- A) CPU B) RAM C) USB D) ROM

20) _____

21) A(n) _____ CPU has two processing paths, allowing it to process more than one instruction at a time. 21)

- A) all-in-one B) dual-core C) dual-mode D) bimodal

22) Which of the following is NOT an example of nonvolatile storage?

- A) Hard drive B) Flash drive C) DVD D) RAM

22) _____

23) Dropbox is an example of _____.

- A) Bluetooth technology B) SSD technology

23) _____

- C) cloud storage D) optical storage

24) All of the following are names for a flash drive EXCEPT _____ drive.

- A) hard B) jump C) USB D) thumb

24) _____

25) Flash drives plug into a(n) _____.

- A) expansion slot B) drive bay C) serial port D) USB port

25) _____

26) Which of the following optical storage media has the greatest storage capacity?

- A) CD B) DVD C) Blu-ray D) DVD DL

26) _____

27) Which port is the most common port used to connect input and output devices to a computer?

- A) Ethernet B) FireWire

27) _____

- C) Universal serial bus (USB) D) Parallel

28) To connect a peripheral device to a computer to exchange data, find the appropriate _____ for the device. 28)

- A) port B) slot C) drive D) expansion bus

29) Which computer port transmits audio and video without the need for compression?

- A) VGA B) USB C) RGA D) HDMI

29) _____

30) Which of the following is NOT a goal of green IT?

- A) Use technology as long as possible

30) _____

- B) Cleaning waterways with repurposed computers

- C) Reduce use of electricity

- D) Use technology to reduce travel

31) All of the following are ways to avoid injuries when working on computers EXCEPT _____.

- A) placing a monitor at least 12" from the eyes

31) _____

- B) taking breaks

- C) ensuring proper lighting

- D) purchasing an adjustable chair

32) A _____ is the biggest power consumer on a computer.

- A) display B) memory module

32) _____

- C) hard drive D) CPU

33) _____ is concerned with the design and arrangement of machines and furniture to avoid uncomfortable or unsafe experiences. 33) _____

- A) Ergonomics B) Repetitive strain prevention

- C) Positioning D) Occupational safety

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

34) _____ is a representation of a fact, a figure, or an idea and can be a number, a word, a picture, or even a recording of sound. 34) _____

35) _____ is the set of computer programs that allows the hardware to perform different tasks. 35) _____

36) A(n) _____ is a computer that is designed to execute a few programs extremely rapidly. 36) _____

37) A(n) _____ device is a component, such as a keyboard, that connects to the computer. 37) _____

38) A _____ is approximately 1000 bytes. 38) _____

39) Microphones and scanners are examples of _____ devices. 39) _____

- 40) _____ is a wireless transmission standard that lets you connect mobile computing devices to peripheral devices over short distances. 40) _____
- 41) Display screens that respond to commands initiated with your finger or a stylus are called _____ screens. 41) _____
- 42) A desktop computer's _____ is the case that houses the main components of the computer and where peripheral devices connect. 42) _____
- 43) The _____ keyboard layout gets its name from the first six letters in the top-left row of alphabetic keys on the keyboard and is the most common English-language keyboard layout. 43) _____
- 44) Joysticks and steering wheels are examples of _____ controllers. 44) _____
- 45) A(n) _____ is a small video camera that sits on top of a monitor or is built into a laptop and can be used to transmit live video. 45) _____
- 46) A(n) _____ microphone picks up sounds coming from all directions at once and is well suited for conference calls. 46) _____
- 47) The width-to-height proportion of a monitor is known as the _____. 47) _____
- 48) Monitors display images by using a grid made up of millions of tiny dots, called _____. 48) _____
- 49) The length of time it takes for a processor to request, locate, open and deliver information stored in RAM is measured in _____. 49) _____
- 50) Each pixel on the newest 4K resolution TVs and monitors is actually made up of four yellow, red, blue, and green _____. 50) _____
- 51) A(n) _____ is a device that combines the functions of a printer, scanner, copier, and fax machine into one unit. 51) _____
- 52) The "brains" of the computer is the _____. 52) _____
- 53) An SD card is an example of a(n) _____ card. 53) _____
- 54) CDs, DVDs, and _____ discs are examples of optical storage. 54) _____
- 55) _____ is a technology most frequently used for credit and debit card processing 55) _____

- 56) _____ mode puts the computer in low power usage, but keeps programs in RAM. 56) _____
- 57) A(n) _____ display color uses the least electricity when compared to any other color. 57) _____
- 58) _____ is a power-saving mode that stores data to a computer's hard drive instead of to its memory. 58) _____

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 59) Information is data that has been organized or presented in a meaningful fashion. 59) _____
- 60) A smartphone is a type of computer. 60) _____
- 61) The operating system controls how your computer functions. 61) _____
- 62) The terms *data* and *information* can be used interchangeably. 62) _____
- 63) The fastest super computer in the world has 9,000,000 computing cores. 63) _____
- 64) Processing is manipulating, calculating, or organizing data into information. 64) _____
- 65) On a keyboard, Num Lock and Caps Lock are both toggle keys. 65) _____
- 66) Laser printers are usually faster at printing in black and white than inkjet printers. 66) _____
- 67) All printers can print from smartphones and tablets. 67) _____
- 68) The arithmetic logic unit (ALU) controls all of the functions performed by the computer's other components and processes all the commands issued to it by software instructions. 68) _____
- 69) Game controllers are output devices. 69) _____
- 70) Keyboards that display on-screen when text input is required are known as virtual keyboards. 70) _____
- 71) Starting a computer when it is powered off is called a warm boot. 71) _____
- 72) The area that holds all of the instructions the computer needs to start up is called RAM. 72) _____
- 73) Today's CPUs run at speeds measured in kilohertz. 73) _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

74) Match each of the following terms to its meaning:

- I. CPU
- II. OLED
- III. QWERTY
- IV. ROM
- V. RAM

A. holds start up instructions needed when the computer is powered on

- B. standard keyboard layout
 - C. processes commands issued by software instructions
 - D. more energy efficient than LCD monitors
 - E. stores programs and data the computer is currently using
- 74) _____

75) Match each of the following terms to its meaning:

- I. data
 - II. processing
 - III. information
 - IV. software
 - V. hardware
-
- A. represents a fact, figure, or idea
 - B. data organized in a meaningful way
 - C. physical components of a computer
 - D. turning data into information
 - E. computer programs
- 75) _____

76) Rank the following from smallest capacity to largest capacity:

- I. terabyte
 - II. gigabyte
 - III. kilobyte
 - IV. megabyte
 - V. petabyte
-
- A. largest
 - B. second largest
 - C. third largest
 - D. fourth largest
 - E. fifth largest
- 76) _____

77) Match each of the following terms to its meaning:

- I. input device
 - II. peripheral device
 - III. output device
 - IV. motherboard
 - V. system unit
-
- A. case that houses the electronic components, power source, and storage devices of a desktop computer
 - B. main circuit board containing the central electronic components of a computer
 - C. used to enter data
 - D. external device that exchanges data with the computer through ports
 - E. displays processed data
- 77) _____

78) Match each of the following terms to its meaning:

- I. pixel
- II. hertz
- III. bit

IV. ppm

V. dpi

A. measurement of printing speed

B. unit of measure for processor speed

C. tiny dot that creates an image on the computer monitor

D. measurement of printer resolution

E. 0 or 1 78) _____

- 1) D
- 2) C
- 3) A
- 4) A
- 5) C
- 6) A
- 7) C
- 8) D
- 9) B
- 10) A
- 11) D
- 12) C
- 13) C
- 14) D
- 15) B
- 16) C
- 17) C
- 18) B
- 19) A
- 20) D
- 21) B
- 22) D
- 23) C
- 24) A
- 25) D
- 26) C
- 27) C
- 28) A
- 29) D
- 30) B
- 31) A
- 32) A
- 33) A
- 34) Data
- 35) Software
- 36) supercomputer
- 37) peripheral
- 38) kilobyte; KB
- 39) input; peripheral
- 40) Bluetooth; Bluetooth technology; WiFi; wireless; wi-fi; wi fi
- 41) touch
- 42) system unit; tower
- 43) QWERTY
- 44) game
- 45) webcam
- 46) omnidirectional
- 47) aspect ratio
- 48) pixels
- 49) nanoseconds; billionths of a second
- 50) subpixels; sub pixels; sub-pixels

- 51) all-in-one printer; all in one printer
- 52) CPU; central processing unit; processor; microprocessor
- 53) flash memory; memory; secure digital
- 54) Blu-ray; BD; bluray
- 55) Near field communication; NFC
- 56) Sleep
- 57) black
- 58) Hibernate
- 59) TRUE
- 60) TRUE
- 61) TRUE
- 62) FALSE
- 63) FALSE
- 64) TRUE
- 65) TRUE
- 66) TRUE
- 67) FALSE
- 68) FALSE
- 69) FALSE
- 70) TRUE
- 71) FALSE
- 72) FALSE
- 73) FALSE
- 74) C, D, B, A, E
- 75) A, D, B, E, C
- 76) B, C, E, D, A
- 77) C, D, E, B, A
- 78) C, B, E, A, D