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? 1) _____
A) Data is numbers. Information is words.
B) Data represents a process. Information is the stored data.
C) They are essentially the same thing.
D) Data represents a fact. Information is data that has been organized.

2) Computers use a _____ language consisting of 0s and 1s.   2) _____
A) system   B) byte C) symbol   D) binary

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) bytes   B) bits   C) characters   D) kilobytes

4) Which of the following is the smallest unit of measure?   4) _____
A) Petabyte   B) Megabyte   C) Terabyte   D) Gigabyte

5) Apple's macOS and Microsoft Windows are examples of _____ software.   5) _____
A) operating system   B) utility
C) communication   D) application

6) An Apple iPad and a Microsoft Surface are examples of _____ computers.   6) _____
A) tablet   B) laptop   C) desktop   D) netbook

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

A) Supercomputer   B) Desktop computer
C) Mainframe computerD) Embedded computer

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

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

9) A keyboard and touch screen are the most common of _____ devices.   9) _____
A) processing   B) storage   C) input   D) output

10) A(n) _____ is an input device that looks like a pen.   10) _____
A) e-rod   B) joystick   C) stylus   D) pointer

11) Each of these is a basic type of a touch screen, EXCEPT _____.   11) _____
A) reflective   B) resistive
C) capacitive   D) surface acoustic wave

12) The number of pixels displayed on the screen is known as _____.   12) _____
A) contrast ratio   B) brightness resolution
C) screen resolution   D) aspect ratio

13) The most common type of monitor for laptops and desktop computers is a(n) _____.   13) _____
A) light-emitting diode (LED)   B) liquid crystal display (LCD)
C) cathode ray tube (CRT)   D) organic light-emitting diode (OLED)

14) The two main categories of home and office printers are _____ and laser printers.   14) _____
A) thermal   B) large format C) inkjet   D) cloud-based

15) _____ printers use static electricity and toner and heat set the image on the page very quickly.   15) _____
A) Thermal   B) Inkjet   C) Nonimpact   D) Laser

16) The _____ contains the central electronic components of the computer.   16) _____
A) peripheral unit   B) input unit
C) arithmetic/logic unit D) motherboard

17) A _____ enables your computer to connect to other computers or to the Internet.   17) _____
A) controller card   B) sound card
C) network interface card (NIC) D) video card

18)   The computer stores currently used programs and data in _____. 18) _____
A) CPU B) RAMC) USB D) ROM

19) RAM is a _____ storage location. 19) _____
A) peripheral   B) permanent   C) volatile   D) nonvolatile

20) The area that holds all the startup instructions the computer needs to start is _____.   20) _____
A) ROM   B) RAMC) CPU D) USB

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

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

22) Which of the following is NOT an example of nonvolatile storage?   22) _____
A) DVD   B) RAMC) Flash drive   D) Hard drive

23) Dropbox is an example of _____. 23) _____
A) Bluetooth technology   B) cloud storage
C) SSD technology   D) optical storage

24) All of the following are names for a flash drive EXCEPT _____ drive.   24) _____
A) thumb   B) jumpC) hard D) USB

25) Flash drives plug into a(n) _____. 25) _____
A) USB port   B) expansion slot   C) drive bay   D) serial port

26) Which of the following optical storage media has the greatest storage capacity?   26) _____
A) DVD   B) CD   C) DVD DL   D) Blu-ray

27) Which port is the most common port used to connect input and output devices to a computer?   27) _____
A) FireWire   B) Parallel
C) Universal serial bus (USB)   D) Ethernet

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?   29) _____
A) VGA   B) USB C) RGA D) HDMI

30) Which of the following is NOT a goal of green IT?   30) _____
A) Reduce use of electricity
B) Use technology as long as possible
C) Use technology to reduce travel
D) Cleaning waterways with repurposed computers

31) All of the following are ways to avoid injuries when working on computers EXCEPT _____.   31) _____
A) purchasing an adjustable chair
B) ensuring proper lighting
C) placing a monitor at least 12" from the eyes
D) taking breaks

32) A _____ is the biggest power consumer on a computer.   32) _____
A) hard drive   B) CPU
C) display   D) memory module

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

A) Repetitive strain prevention B) Positioning
C) Occupational safety   D) Ergonomics

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) D
3) B
4) B
5) A
6) A
7) A
8) A
9) C
10) C
11) A
12) C
13) B
14) C
15) D
16) D
17) C
18) B
19) C
20) A
21) D
22) B
23) B
24) C
25) A
26) D
27) C
28) A
29) D
30) D
31) C
32) C
33) D
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