True/False

1. Like compute binary code, Morse Code uses bits and bytes to represent the characters and symbols of human language.
   False

2. Bill Gates and Paul Allen founded the Microsoft Corporation.
   True

3. During a computer's boot sequence, the operating system is loaded into RAM.
   True

4. A command line interface is a text-only system that requires the user to input commands using a keyboard.
   True

5. QWERTY is a popular keyboard layout convention developed first for use on English language typewriters.
   True

6. The term PC is a generic reference to any computer running the OS X operating system.
   False

7. A blue laser optical disc can write more digital data than a red laser disc in the same physical space.
   True

8. A Blu-ray disc has the same capacity for digital information as an audio compact disc.
   False

Multiple Choice

1. Each 0 or 1 in a binary string of numbers is referred to as a _____.
   a. bit
   b. byte
   c. pixel
   d. unit

2. A string of eight 0s or 1s is called a _____.
   a. bit
   b. byte
   c. pixel
   d. unit

3. Each character in the ASCII standard is encoded as _____ of binary data.
   a. 1 byte
   b. 2 bits
   c. 8 bytes
   d. 256 bits

4. The invention of the _____ in 1971, was a major technology advancement that made possible the development of the personal computer.
   a. CPU
   b. hard Drive
   c. microprocessor
   d. monitor

5. MS-DOS is the name of _____.
   a. a computer operating system
   b. a desktop publishing system
   c. a large mainframe computer
   d. the first personal computer

6. _____ is a general term used to describe the physical components of a computer system, device, or peripheral.
   a. application
   b. data
   c. hardware
   d. processor

7. _____ is a term that refers to a computer program or set of programs designed to perform a specific set of tasks or functions.
   a. hardware
   b. operating system
   c. RAM
   d. application software

8. The _____ serves as the brain of the computer
   a. CPU
   b. hard disk drive
   c. operating system
   d. RAM

9. A certain computer is advertised as having a 2.7 GHz processor, referring to the
   _____.
   a. the amount of RAM
   b. the speed of the RAM
   c. the number of transistors per square inch on the CPU
   d. the number of instructions that can be processed per second by the CPU

10. For more than 40 years, Moore's law successfully predicted which of the following?
    a. the doubling of computer processing speed every four years
    b. the doubling of pixels on a computer monitor every ten years
    c. the doubling of transistors on an integrated circuit every two years
    d. the doubling of hard drive capacity every two years

11. Which of the following statements **is not** true of volatile memory?
    a. it is used only as a method of temporary storage
    b. the more you have, the slower your computer will perform tasks
    c. it is a type of memory used in the design of RAM chips
    d. all of the above

12. A hard disk drive uses _____ for data storage.
    a. solid-state platters
    b. RAM
    c. non-volatile memory
    d. volatile memory

13. The mouse was originally designed to interact with text-based hyperlinks in which type
    of human interface?
    a. CLI
    b. TUI
    c. GUI
    d. All of the above

14. Which of the following refers to the frequency in gigahertz (GHz) of a computer's central
    processing unit (CPU) and indicates the rate at which a processor can execute instructions?
    a. Bandwidth
    b. Clock speed
    c. Moore's Law
    d. Spindle speed

15. A terabyte is roughly _____ bytes.
    a. one thousand
    b. one million
    c. one billion
    d. one trillion

16. A kilobyte is roughly _____ bytes.

    a. one thousand
    b. one million
    c. one billion
    d. one trillion

17. A _____ is a computer network restricted to a limited area, purpose, and scope.
    a. CLI
    b. GUI
    c. HID
    d. LAN

18. Which of the following **is not** an example of an optical storage format?
    a. Blu-Ray
    b. Compact Disc
    c. DVD
    d. Flash Memory

19. A(n) _____ is self-contained collection of binary data (bytes).
    a. application
    b. file
    c. LAN
    d. microprocessor

20. The _____ is the first software application on a computer that is launched when a computer is turned on or restarted.
    a. boot software
    b. CMS
    c. file system browser
    d. operating system

21. Which of the following terms is used to describe transmission capacity within a digital pipeline or the speed at which digital information is transmitted from one device to another?
    e. bandwidth
    f. bit depth
    g. clock speed
    h. processor speed