CPSC 110 RAT Chapter 1

Name: _____

1. What is computer science?

    a. The study of algorithms
    b. The practice of setting up computer systems
    c. The use of computer applications like email and spreadsheets
    d. The study of how to build computer hardware

2. Which is **not** true of algorithms?

    a. They pre-date computers by thousands of years
    b. They can be written in code so a computer can run them
    c. They must include all the steps in detail
    d. You have to understand how it works to follow it

3. What is a variable?

    a. A programming language designed for people to use
    b. The part of a computer that runs the instructions
    c. A method for solving problems
    d. A name we give to a value which may change in an algorithm

4. Which of the following is an example of an output device?

    a. The CPU
    b. Keyboards
    c. Speakers
    d. Memory

5. What is an algorithm?

    a. A language computers understand natively
    b. An early form of a computer
    c. A device connected to a computer which stores data
    d. A detailed, step-by-step procedure for solving a problem

6. Which sort of computer language is Python?

    a. High-level language
    b. Assembly language
    c. Machine language
    d. A dialect of Parseltongue

7. What was the first *programmable* computer ever designed?

    a. The Pascaline
    b. The Analytical Engine
    c. The ENIAC
    d. The iPhone

8. What is a computer?

    a. A device which has at least one input device
    b. A machine that includes the game Solitaire
    c. A tool which can be programmed in a high-level language
    d. Any device capable of running algorithms automatically

9. What is the goal of algorithm analysis?

    a. To decide how hard an algorithm will be to design
    b. To measure how many steps an algorithm takes in different cases
    c. To try to find bugs in an algorithm
    d. To create an algorithm for an unsolved problem

10. Which of these computers is most powerful?

    a. The Colossus
    b. The Analytical Engine
    c. Your smartphone
    d. The ENIAC