**1. Java Virtual Machine (1pts)**

The Java Virtual Machine is a compiler that allows a computer to run a Java program.

**2. Compilation Process (2pts)**

In the compilation process a source file is compiled into an object file(0’s and 1’s) that is then turned into an executable file that the computer can run.

**3. CPU is one of the main components of computer hardware, briefly define a CPU (1pts)**

A CPU, or Central Processing Unit is the brain of the computer, where everything takes place

**4. What is a variable in Java? Provide two example of two variable declaration and initialization (2pts)**

A variable is something that holds a value in a program.

int a; int a = 20;

a = 20

**5. What is a String in Java? Provide an example (1pts)**

A string is a sequence of characters,

String a = “Hello”

**6. What is Scanner? (1pts)**

Scanner is a class that allows you to read user input from the console

**7. What is a Java Library? Provide an example. (2pts)**

A library is a set of packages and functions that you can call when defined to do certain actions

Java.util.Scanner and java.lang.math are libraries