CIS 121 - Quiz 8 - Friday, March 5, 2004

Name: ___________________________________  J Number: ___________________________________

1. (2 pts) Suppose we have an Image reference called image. Show one line of code that will create a reference to an Image called image1 whose width is 1/2 of the width of image and whose height is 1/10 of the height of image. Assume that you are writing this code inside the init method of an applet.

2. (2 pts) Data written to external files is called ________________ data since it is usually not lost when a program exits, and the package ________________ contains many classes used for interacting with external files and streams.

3. (2 pts) Suppose you have a reference to a BufferedInputStream called input, a reference to a byte array called buffer whose size is 20, and a reference to a byte array called bytes whose size is 40. Suppose we attempt to read 20 bytes from input into buffer. If 20 bytes are read, then copy the contents of buffer into bytes beginning at position 0. If less than 20 bytes are read, copy the contents of buffer into the right-most part of bytes where the last element in buffer will be placed into the last element of bytes. Show the lines of code which will make this happen.

4. (2 pts) The superclass of all exceptional behaviors defined in Java is ________________, and its two main subclasses are Error and ________________.

5. (2 pts) Consider the following class definition. Are there any syntax errors? If not, how many times will the String “Hello” be printed? Explain.

    public class Question5 {
        public static void main(String[] args) {
            System.out.println("Hello");
            int number = Integer.parseInt(""");
            System.out.println("Hello");
        }
    }