

## Quiz 2 CISC 370

06/20/2005

Name: \_\_\_\_\_

1. (3 pts) Fill in the blanks:

Every Java class is implicitly a subclass of the \_\_\_\_\_(a)\_ class.

Java organizes classes in \_\_\_\_\_(b), which provide a hierarchical

directory structure. \_\_\_\_\_(a) is part of the \_\_\_\_\_(c),

which is automatically imported by every Java class. A(n) \_\_\_\_\_(d)

defines methods but does not provide implementation for any of the methods.

2. (3 pts) What is overloading? Give an example of using overloading.

3. (3 pts) What is overriding? Give an example of using overriding.

4. (3 pts) What does using an Exception object give the program/programmer that an error code won't?

5. (3 pts) What is the primary difference between a checked and an unchecked exception in Java?

6. (5 pts) Complete the following code:

```
// YOUR CODE: define the class Rectangle as a subclass of the
// "Shape" class

{
    private double width;
    private double height;
    private static final String type = Shape.RECTANGLE;

    public Rectangle(double width, double height) {
        // YOUR CODE: call the Shape constructor with
        // type as the parameter.
        // Initialize Rectangle's width and height

    }

    public double area() {
        return width * height;
    }

    public static void main(String[] args) {

        ...
    }
}
```