Quiz 3   CISC 370
06/27/2005

Name:_____

1. (3 pts) Fill in the blanks:
Java I/O is based on the concept of _____(a)_. There are two

basic kinds of _____(a) based on the kind of data they read:

_____(b) and _____(c). To create more sophisticated,

functional _____(a)_, Java allows you to _____(d)

_____(a) so that you can leverage the functionality of multiple

_____(a).

2. (3 pts) What is the primary benefit of overriding the "toString" method in Java classes?

3. (3 pts) What is the main issue with using the default (Object) cloning method in derived classes?

4. (2 pts) Name two of the Collection *interfaces* we discussed on Thursday.

5. (4 pts) What is the benefit of having generic Collections, i.e., Collections that can contain different types of objects? What is the benefit of declaring a type for the objects within a Collection?

6. (3 pts) Why is the preferred style of programming with Collections to have the interface on the left side of an assignment and an implementation on the right side? For example, an assignment statement may look like

```
Interface object = new Implementation();
```

7. (2 pts) Why does Java have both Comparable and Comparator interfaces? When is it appropriate to use each?