CIS 121 - Quiz 5 - Friday, February 13, 2004

Name: _____________________________ J Number: _____________________________

1. (2 pts) A feature that may not be supported in future releases of a developing language like Java is called a ___________ feature, and an example of this is the method ___________ in the Thread class.

2. (2 pts) Suppose MyClass is an extension of the class SurvivorClass, and MyClass defines the method public void display() that is not defined in the class SurvivorClass nor in any of its superclasses, and MyClass does not have any constructors defined. Is there a syntax error in the following code? Explain.

   ```java
   public class Question2 {
       public static void equals(SurvivorClass s) {
           if (s == null)
               System.out.println(s);
           else
               s.display();
       }
       public static void main(String[] args) {
           MyClass myClass = new MyClass();
           myClass.equals(new MyClass());
       }
   }
   ```

3. (2 pts) ___________ is a binding that takes place at runtime between a method call and its correct implementation, and if a class is ___________ we can’t create an instance of the class with a constructor.

4. (2 pts) Suppose the following lines are in the main method of an application. What is printed when the program is interpreted? Explain.

   ```java
   String s = “Hello”;
   s.substring(2,5);
   s.toUpperCase();
   s.substring(0,s.length());
   System.out.println(s);
   ```

5. (2 pts) Fill in the following method which will return true if the String that is sent to the method contains adjacent repeated characters. For example, if Hello is sent to the method, true is returned, but if legal is sent to the method, false is returned. The repeated characters must be adjacent.

   ```java
   public boolean repeated(String input) {
   }
   ```