1. (2 pts) What happens when you try to compile and execute the following program? Explain your answer.

```java
public abstract class Question1 implements Comparable {
    private int num;
    public Question1(int num) {
        this.num = num;
    }
    public int compareTo(Object o) {
        return(-1);
    }
    public static void main(String[] args) {
        Question1 question1 = new Question1(1);
        Question1 question2 = new Question1(2);
        System.out.println(question1.compareTo(question2));
    }
}
```

2. (2 pts) Explain the interface contract.

3. (2 pts) Suppose class A extends B and implements C. If neither A nor B have constructors and B does not implement C, which of the following are correct assignments? Explain your reasoning.

   A a = new B();
   C c = new B();
   C c = new A();
   B b = new A();

4. (2 pts) _________________ is a feature which allows a primitive type to be automatically encapsulated into its corresponding wrapper, and _________________ is a feature which allows an instance of a wrapper class to be automatically converted to the corresponding primitive type.

5. (2 pts) Components in the java.awt package are considered _________________ components since they rely heavily on the platform on which Java is running. Most of the components in the javax.swing package are considered _________________ since they do not rely heavily on the underlying platform.