1. (2 pts) What is printed when the class Test is executed? Explain the output.

```java
public class Question1 {
    public void print() { System.out.println("Question 1"); }
    public static void print1() { System.out.println("Question 1"); }
}

class Test extends Question1 {
    public void print() { System.out.println("Test"); }
    public static void print1() { System.out.println("Test"); }
    public static void main(String[] args) {
        Question1 question1 = new Test();
        Test test = new Test();
        question1.print();
        test.print();
        question1.print1();
        test.print1();
    }
}
```

2. (2 pts) The keyword ______________ allows entities to be accessed directly by subclasses even if they are not in the same package as their superclass.

3. (2 pts) Explain the two errors in the following code.

```java
public final class Question3 {
    public final void print() { System.out.println("Question 3"); }
}

class Test1 extends Question3 {
    public void print() { System.out.println("Test 1"); }
}
```

4. (2 pts) ______________ refers to a dynamic binding that occurs at runtime between a method call and implementation. This only applies to instance methods since if we implement a class method with the same signature and return type as one in the superclass, then the one in the superclass is ______________ in the subclass.

5. (2 pts) Suppose that class A extends B and class B extends C. Which of the following are valid declarations? Explain. Assume that no constructors are defined in the classes.

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