CT-3

Total Marks: 30

Time Limit: 25 minutes + 10 minutes for submission

1. Point out the errors in the following code snippets (a & b) (You do not need to rewrite the code). Give reasons for your answer.

[15]

class HelloWorld{
 static int x;
 static int y;
 int z;
 void firstMethod() {
 this.x = 5;
 }
 static void secondMethod() {
 System.out.println("y = " +
 y);
 System.out.println("z = " +
 z);
 this.x = 5;
 }
} class B extends A{
 void newMethod() {
 System.out.println("not a final method");
 }
} class C{
 final void anotherMethod() {
 System.out.println("inside another method");
 }
} class D extends C{
 void anotherMethod() {
 System.out.println("inside another method");
 }
}
class D extends C{
 void anotherMethod() {
 System.out.println("new another method");
 }
}

2. Write the output of the following code: (You do not need to rewrite the code). Give reasons for your answer.

[15]

```
public class Main {
    public static void main(String[] args) {
        int v1 = 4;
        int v2 = -2;
        try {
            try {
                test(v1);
                return;
            } catch (ArithmeticException e) {
                System.out.println("Inner catch: " + e.getMessage());
                test(v2);
            } finally {
                System.out.println("I don't care about exceptions");
            }
        } catch (Exception e) {
            System.out.println("Outer catch: " + e.getMessage());
    } // End of main function
    static void test(int a) {
        testException(a);
        return;
    }
    static void testException(int a) {
        if (a < 0) {
            throw new NumberFormatException("Negative value not allowed");
        } else if (a % 2 == 0) {
            throw new ArithmeticException("Even integer found");
        } else {
            System.out.println("Input " + a);
        }
    }
}
```