Time: 25 min Mark: 20

Name: ID: Sec:

- Q1. Which of the following is a valid header for user-defined exception? Mark all that apply.
- [2]

- a) class MyException implements Exception
- b) class MyException extends Exceptionc) public class MyException extends ArithmeticException
- d) public class MyException implements Throwable
- Q2. Write one line code to throw an **IOException** with message set to "Invalid Source".
- Q3. Notice the following code is showing an error at line#11. What will be the fix for this error? Write the fixed code (Note: You do not need to write the complete code, only the changes required to make the code free of any compile-time error.)

```
1 package ct4;
 2 public class TestException {
        public static void main(String[] args) {
 4
            validData(10);
 5
        }
 6
        public static void validData(int data) {
 70
 8
            if(data>0 && data<100)
 9
                System.out.println(data);
10
            else
                throw new Exception("Should be between 0 and than 100");
11
        }
   }
```

Q4. Will the following code execute successfully? If does, what will be the output? If not, why? Justify your answer.

```
Code of CT class
                                                                            Code of TestClass
                                                           package ct4;
   package ct4;
                                                           public class TestClass {
                                                               public static void main(String[] args) {
   public class CT{
                                                                   CT ct4 = new CT("CT4") {
       String name;
                                                                       int quesCount = 0;
       int score;
 6
                                                                       @Override
        public CT(String name) {
                                                                       public void giveMark(int mark) {
           this.name = name;
                                                                           quesCount++;
 9
                                                                           score += mark;
       public void giveMark(int mark) {
           score += mark;
                                                                       public void display() {
13
                                                                           super.display();
                                                                           System.out.println(":"+quesCount);
14
       public int getMark() {
16
           return score;
                                                                   };
                                                                   ct4.giveMark(5);
19
        public void display() {
                                                                   ct4.giveMark(5);
                                                                   System.out.println(ct4.score+":"+ct4.quesCount);
           System.out.println(name +":"+score);
20
                                                                   ct4.display();
22 }
                                                       24 }
```

[10]

[2]