

CS-433 – Advanced Programming

Quiz 2 (Sec C), December 04, 2018

Name: _____

Total Marks: 30

Roll No: _____

Time Allowed: 20 min

Round I - Warming you up

Question 1 [8 marks]

Encircle the correct option

1. How do you call a static method?
 - a. with a class identifier
 - b. with a new class instance
 - c. None of the above
2. Which two keywords are used together to create a class level constant?
 - a. `public` and `constant`
 - b. `final` and `constant`
 - c. `final` and `static`
3. To allow a class member to be overridden, which of the following modifier(s) should *not* be used?
 - a. `public`
 - b. `protected`
 - c. `default`
 - d. `private`
 - e. `final`
4. What results would print from the following code snippet:

```
System.out.println("CS ".valueOf(391));
```

 - a. The application won't compile
 - b. CS 391
 - c. 391
 - d. none of the above
5. `JComponent` is a direct subclass of
 - a. `java.awt.Frame`
 - a. `java.awt.Container`
 - b. `java.lang.Object`
 - c. None of the above
6. Heavyweight and Lightweight components (with a few exceptions) can be grouped together as follows:
 - a. Swing and AWT Components
 - b. Frames and Panels
 - c. AWT and Swing Components
 - d. Panels and Frames

7. If a function does not want to handle an exception by itself, which keyword it will use to inform the caller functions
 - a. throw
 - b. catch
 - c. throws
 - d. return
8. If a return statement is written in either a try or catch block then the finally block is not executed.
 - a. True
 - b. False

Round II –Book Worms’ Special

Question 2 [8 marks]

1. What is the difference between a Checked and an unchecked exception?

2. What is the difference between Byte Streams and Character Streams?

3. What are the steps required by the programmer for handling different events in his application?

4. Give some examples when you need to prevent serialization

Round III – Snipping the code

Question 3 [4 marks]

What output will the following code print?

```
class Manipulator
{
    int x;

    public Manipulator()
    {
        x=1;
    }

    public static int getVarX()
    {
        int y = (x--)+ 4 *(++x);
        return x;
    }
}

public class ManTest
{
    public static void main(String args[])
    {
        Manipulator m = new Manipulator();
        System.out.println("Output: " + m.getVarX());
    }
}
```

Question 4 [5 marks]

```
class Test
{
    public static void main (String args[])
    {
        for (int i=0; i<4; i++)
            System.out.println("Argument " + i + ": " + args[i]);
    }
}
```

What will happen when the user tries to execute this code as follows?

- a. >java Test Advanced Programming In Java

- b. >java Test Advanced Programming

Question 5 [5 marks]

What output will the following code produce?

```
class Parent
{
    public void printInfo()
    {
        System.out.println("Inside parent's method");
    }
}
class Child extends Parent
{
    public void printInfo()
    {
        printInfo();
    }
    public static void main(String args[])
    {
        Parent p = new Child();
        p.printInfo();
    }
}
```