Question - 1

Java: Find the Output

SCORE: **10 points**

Java General Programming Exception Handling Language-Specific Core CS

Basic Programming

Consider the following Java code snippet:

```java
public int divide(int a, int b) {
    int c = -1;

    try {
        c = a / b;
    }
    catch (Exception e) {
        System.err.print("Exception ");
    }
    finally {
        System.err.println("Finally ");
    }

    return c;
}
```

What will our code *print* when we call *divide(4, 0)*?

- ◉ Exception Finally

- ○ Finally Exception

- ○ Exception

- ○ Finally

- ○ No output

- ○ -1

Question - 2

Java: Constructor, Exception Handling and Inheritance

SCORE: **10 points**

Language Fundamentals Constructors Java Exception Handling Inheritance

Language-Specific Core CS

What should be the output of the following code?

```java
class AirPlane {
    public AirPlane() throws IOException {
        System.out.print("AirPlane");
        throw new IOException();
```

⊘ Help

```
        }
    }
class AirJet extends AirPlane {
    public AirJet() throws IOException {
     try {
         super();
     } catch (IOException e) {
         System.out.print("IOException is thrown
in AirJet");
         }
     }
}
public class Tester {
    public static void main(String args[]) {
        try {
         new AirJet();
        } catch (IOException e) {
            System.out.print("IOException is
thrown in Tester");
        }
     }
}
```

○ "AirPlaneIOException is thrown in AirJet" will be printed.

○

"AirPlaneIOException is thrown in AirJetIOException is thrown in Tester"
will be printed.

○ "AirPlaneIOException is thrown in Tester" will be printed.

● Compile error.

Question - 3

Java   Easy   Inheritance   Object Oriented Programming

What is the output for the below code ?

```
1. public  class A {
2.     int add(int i, int j){
3.         return i+j;
4.     }
5. }
6. public class B extends A{
7.     public static void main(String argv[]){
8.         short s = 9;
9.         System.out.println(add(s,6));
10.    }
11.}
```

○ Compile fail due to error on line no 2

●

Compile fail due to error on line no 9 due to the non-static method
referenced from a static context.

○ Compile fail due to error on line no 9 due to type mismatch.

○ 15

Question - 4

Java   Easy   Iteration

What is the output for the below Java code ?

```java
public class Test {
    public static void main(String[] args){
        int i = 010;
        int j = 07;
        System.out.println(i);
        System.out.println(j);
    }
}
```

⦿ 8 7

◯ 10 7

◯ C.Compilation fails with an error at line 3

◯ D.Compilation fails with an error at line 5

Question - 5
Java: String Array

Application Development   Java   Arrays   Core CS   Language-Specific

Which of the following Java declaration of the String array is correct?

◯ String temp [] = new String {"j" "a" "z"};

◯ String temp [] = { "j " " b" "c"};

◯ String temp = {"a", "b", "c"};

⦿ String temp [] = {"a", "b", "c"};

Question - 6

Application Development   Java

Given the following declarations

```java
String s1=new String("Hello")
String s2=new String("there");
String s3=new String();
```

Which of the following are legal operations?

- ⦿ s3=s1 + s2;
- ◯ s3=s1 - s2;
- ◯ s3=s1 & s2
- ◯ s3=s1 && s2

Question - 7

```
Choose the correct output according to following
code:
public class Q {
        static int c = 0;
        public static void main(String[] args) {
            Q q1 = c();
            Q q2 = c(q1);
            Q q3 = c(q2);
            Q q4 = c(q3);
        }
        private Q() {
            System.out.print("c = " + c + " ");
        }
        static Q c() {
            return c++ <= 0 ? new Q() : null;
        }
        static Q c(Q w) {
            return w.c++ == 1 ? new Q() : null;
        }
}
```

- ◯ c = 1 c = 2 c = 3 c = 4
- ◯ c = 1 c = 2 c = 3
- ⦿ c = 1 c = 2
- ◯ NullPointerException

Question - 8

Which answer(s) match the given pattern?
pattern: a*b+

- ⦿ ab
- ⦿ bbbbbb
- ◯ aaaaaa
- ⦿ aaaaaabbbbb

Question - 9

Which is the correct syntax to convert JPanel layout to CardLayout?

A. CardLayout layout = ((CardLayout)myPanel).getLayout();
B. CardLayout layout = (CardLayout) myPanel.getLayout();

○ A

⊙ B

○ Both A and B are correct

○ Both A and B are wrong

Question - 10

```java
import java.util.*;

public class Demo {

    public static void main(String []args) {
        ArrayList<Integer> result = new
ArrayList<>();
        int[] nums = {2, 8, 3, 6, 1, 10, 5, 7, 4,
3};
        int[] copy = nums;
        for (int i = 0; i < nums.length; i++) {
            // check if nums[i] is odd number
            if (nums[i] % 2 == 1) {
                result.add(copy[i]);
                nums[i]++;
                break;
            }
        }
        // print every element within the
arraylist
        for (int i: result) {
            System.out.print(i + " ");
        }
    }
}
```

○ 6

⊙ 3

○ 2 8 3 6 1 10 5 7 4 3

○ 2 8 3 6 1