

## Question - 1

SCORE: 10 points

What is the use of try & catch?

☐ It prevents automatic terminating of the program in cases when an exception occurs

☐ It allows to fix errors

☐ It allows us to manually handle the exception

☒ All of the mentioned

## Question - 2

SCORE: 10 points

What is the output of this program?

```
public class Demo {  
  
    public static void main(String []args) {  
        try {  
            String a = "123.4";  
            int b = Integer.parseInt(a);  
            System.out.print("Hello");  
        } catch (NumberFormatException e) {  
            System.out.print("World1");  
        } catch (Exception e) {  
            System.out.print("World2");  
        }  
    }  
}
```

☐ HelloWorld1

☐ HelloWorld2

☒ World1

☐ World2

☐ World1World2

## Question - 3

SCORE: 10 points

What is the output of this program?

```
public class Demo {  
  
    public static void main(String []args) {  
        for (int i = 0; i < 10; i++) {  
            if (i == 2 || i == 4 || i == 6) {
```

```
        System.out.print(i + " ");
        continue;
    }
    if (i == 4) {
        System.out.print(i + " ");
        break;
    }
    return;
}
}
```

- ☐ 2 4
- ☐ 2 4 6
- ☐ 2
- ☒ nothing get printed

## Question - 4

SCORE: 10 points

What is the output of this program?

```
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) {
                nums[i]++;
                result.add(copy[i]);
                continue;
            }
        }
        // print every element within the
arraylist
        for (int i: result) {
            System.out.print(i + " ");
        }
    }
}
```

- ☐ 3
- ☐ 4
- ☐ 3 1 5 7 3
- ☒ 4 2 6 8 4

## Question - 5

SCORE: 10 points

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 incorrect

## Question - 6

SCORE: 10 points

What is the output of this program?

```
public class Demo {
    String name;
    int age;
    public Demo() {
        System.out.println("Constructor called");
    }

    public Demo(String age) {
        this();
        System.out.println("Get age: " + age);
    }

    public Demo(int age) {
        System.out.println("Get age: " + age);
    }

    public static void main(String []args) {
        Demo d1 = new Demo("24");
    }
}
```

- ☒ Constructor called Get age: 24  
☐ Constructor called Get age: "24"  
☐ Get age: 24  
☐ Get age: "24"

## Question - 7

SCORE: 10 points

What numbers does the following code print to the console?

```
int[] nums = {1, 2, 3, 4, 5, 6, 7, 8, 9};
for (int i = 0; i < 8; i++) {
    System.out.print(nums[i]+1);
}
```

- ☐ 01234567  
☐ 12345678  
☒ 23456789

## Question - 8

SCORE: 10 points

What is the output of this program?

```
import java.util.*;
class Student {
    String name;
    int age;
    public Student (String name, int age) {
        this.name = name;
        this.age = age;
    }
}

public class Demo {
    public static void main(String []args) {
        ArrayList<Student> studentList = new
ArrayList<>();
        studentList.add(new Student("A", 21));
        Student s1 = studentList.get(0);
        Student s2 = s1;
        s2.age = 24;
        System.out.print(studentList.get(0).age +
" & " + s1.age + " & " + s2.age);
    }
}
```

- ☐ 21 & 21 & 24
- ☐ 21 & 24 & 24
- ☒ 24 & 24 & 24
- ☐ 21 & 21 & 21

## Question - 9

SCORE: 10 points

What will be the output of the following code?

```
int[] arr = new int[9];
System.out.println(arr[9]);
```

- ☐ 0
- ☐ Some junk value
- ☐ Error because array is not initialized
- ☒ Error because index is out of range

## Question - 10

SCORE: 10 points

What is the output of this program?

```
import java.util.*;
public class Demo {
    public static void main(String []args) {
        ArrayList<Integer> list = new ArrayList<>
        ();
        list.add(2);
        list.add(0);
        list.add(1);
        list.add(8);
        list.remove(1);
        list.remove(2);
        for (int i: list) {
            System.out.print(i + " ");
        }
    }
}
```

- ☐ 08
- ☐ 18
- ☐ 28
- ☒ 21