

# Rajalakshmi Engineering College

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Batch: 2028

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## 2024\_28\_III\_OOPS Using Java Lab

### **REC\_2028\_OOPS using Java\_Week 9\_MCQ**

Attempt : 1

Total Mark : 15

Marks Obtained : 15

#### **Section 1 : MCQ**

1. What will be the output of the following code?

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<Integer> list = new ArrayList<>();
        list.add(10);
        list.add(20);
        list.add(30);
        list.remove(1);
        System.out.println(list);
    }
}
```

**Answer**

[10, 30]

**Status : Correct**

**Marks : 1/1**

2. What is the correct way to create an ArrayList in Java?

**Answer**

```
ArrayList<String> list = new ArrayList<>();
```

**Status : Correct**

**Marks : 1/1**

3. What will be the output of the following code?

```
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Stack<Integer> s = new Stack<>();
        s.push(10);
        s.push(20);
        s.push(30);
        System.out.println(s.peek());
    }
}
```

**Answer**

30

**Status : Correct**

**Marks : 1/1**

4. What will be the output of the following code?

```
import java.util.ArrayList;

public class Main {
    public static void main(String[] args) {
        ArrayList<Integer> list = new ArrayList<>();
        list.add(10);
        list.add(20);
        list.add(30);
        System.out.println("Size of the list: " + list.size());
```

```
    }  
}
```

**Answer**

Size of the list: 3

**Status : Correct**

**Marks : 1/1**

5. Which of the following methods removes and returns the last element from a LinkedList?

**Answer**

removeLast()

**Status : Correct**

**Marks : 1/1**

6. Which method is used to add an element to the top of the stack?

**Answer**

push()

**Status : Correct**

**Marks : 1/1**

7. What does the addFirst() method of LinkedList do?

**Answer**

Adds an element to the beginning of the list

**Status : Correct**

**Marks : 1/1**

8. What will be the output of the following code?

```
import java.util.*;  
class Main {  
    public static void main(String[] args) {  
        ArrayList<Integer> list = new ArrayList<>();  
        list.add(1);
```

```
list.add(2);
list.add(3);
list.add(4);
list.add(5);
System.out.println(list.get(3));
}
}
```

**Answer**

4

**Status : Correct**

**Marks : 1/1**

9. What will be the output of the following code?

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<Integer> list = new ArrayList<>();
        list.add(1);
        list.add(2);
        list.add(3);
        list.add(4);
        list.set(2, 10);
        System.out.println(list);
    }
}
```

**Answer**

[1, 2, 10, 4]

**Status : Correct**

**Marks : 1/1**

10. What will be the output of the following code?

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<String> list = new ArrayList<>();
```

```
list.add("apple");
list.add("banana");
list.add("cherry");
list.add("banana");
System.out.println(list.lastIndexOf("banana"));
}
}
```

**Answer**

3

**Status : Correct**

**Marks : 1/1**

11. How can you access the first element of an ArrayList named as list?

**Answer**

```
list.get(0);
```

**Status : Correct**

**Marks : 1/1**

12. What will be the output of the following code?

```
import java.util.*;
class Main {
    public static void main(String[] args) {
        ArrayList<String> list = new ArrayList<>();
        list.add("Java");
        list.add("Python");
        list.add("Java");
        list.add("C++");
        System.out.println(list.indexOf("Java"));
    }
}
```

**Answer**

0

**Status : Correct**

**Marks : 1/1**

13. What will be the output of the following code?

```
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Stack<Integer> stack = new Stack<>();
        for (int i = 1; i <= 3; i++)
            stack.push(i * 2);
        stack.pop();
        stack.push(10);
        System.out.println(stack.peek());
    }
}
```

*Answer*

10

Status : Correct

Marks : 1/1

14. What will be the output of the following code?

```
import java.util.ArrayList;
public class Main {
    public static void main(String[] args) {
        ArrayList<String> list = new ArrayList<>();
        list.add("Apple");
        list.add("Banana");
        list.remove("Apple");
        System.out.println(list);

    }
}
```

*Answer*

[Banana]

Status : Correct

Marks : 1/1

15. What is Collection in Java?

**Answer**

A group of objects

**Status : Correct**

**Marks : 1/1**