

# Rajalakshmi Engineering College

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Department: AI & ML - Section 1

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 : 13

#### 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<String> list = new ArrayList<>();
        list.add("apple");
        list.add("banana");
        list.add("cherry");
        list.add("banana");
        System.out.println(list.lastIndexOf("banana"));
    }
}
```

Answer

2

Status : **Wrong**

Marks : 0/1

2. 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

3. 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

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

**Answer**

removeLast()

**Status :** Correct

**Marks :** 1/1

5. 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

6. 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**

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

**Answer**

push()

**Status : Correct**

**Marks : 1/1**

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

**Answer**

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

**Status : Correct**

**Marks : 1/1**

9. What is Collection in Java?

**Answer**

A group of objects

**Status : Correct**

**Marks : 1/1**

10. 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

11. 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

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

**Answer**

list.get(0);

**Status :** Correct

**Marks :** 1/1

13. 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**

3

**Status : Wrong**

**Marks : 0/1**

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

**Answer**

Adds an element to the beginning of the list

**Status : Correct**

**Marks : 1/1**

15. 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**