Rajalakshmi Engineering College

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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.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***

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

Answer

push()

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<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***

4. 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***

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

Answer

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

Status : Correct ***Marks : 1/1***

6. What is Collection in Java?

Answer

A group of objects

Status : Correct ***Marks : 1/1***

7. 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***

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

Answer

removeLast()

Status : Correct ***Marks : 1/1***

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

Answer

Adds an element to the beginning of the list

Status : Correct ***Marks : 1/1***

10. 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***

11. 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***

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

Answer

3

Status : Correct ***Marks : 1/1***

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

Answer

list.get(0);

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 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***