

# Rajalakshmi Engineering College

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Branch: REC

Department: AI & ML - Section 4

Batch: 2028

Degree: B.E - AI & ML

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

### REC\_2028\_OOPS using Java\_Week 6\_MCQ

Attempt : 1

Total Mark : 15

Marks Obtained : 15

#### Section 1 : MCQ

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

```
class A {  
    int sum(int x) {  
        return x + 2;  
    }  
}
```

```
class B extends A {  
    int sum(int x) {  
        return super.sum(x) * 2;  
    }  
}
```

```
class C extends B {  
    int sum(int x) {
```

```
        return super.sum(x) - 3;
    }
}

class Test {
    public static void main(String[] args) {
        C obj = new C();
        System.out.println(obj.sum(4));
    }
}
```

**Answer**

9

**Status :** Correct

**Marks :** 1/1

2. What will be the output of the following Java program?

```
class A {
    void display() {
        System.out.println("Class A");
    }
}
```

```
class B extends A {
    void show() {
        System.out.println("Class B");
    }
}
```

```
class C extends B {
    void print() {
        System.out.println("Class C");
    }
}
```

```
class Test {
    public static void main(String[] args) {
        C obj = new C();
    }
}
```

```
        obj.display();
        obj.show();
        obj.print();
    }
}
```

**Answer**

Class AClass BClass C

**Status : Correct**

**Marks : 1/1**

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

```
class Vehicle {
    String type = "Vehicle";
}

class Car extends Vehicle {
    String type = "Car";
}

class Test {
    public static void main(String[] args) {
        Car c = new Car();
        System.out.println(c.type);
    }
}
```

**Answer**

Car

**Status : Correct**

**Marks : 1/1**

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

```
class A {
    int x = 10;
}
```

```
class B extends A {  
    int x = 20;  
}  
  
class C extends B {  
    int x = 30;  
  
    void display() {  
        System.out.println(x);  
        System.out.println(super.x);  
    }  
}  
  
class Test {  
    public static void main(String[] args) {  
        C obj = new C();  
        obj.display();  
    }  
}
```

**Answer**

3020

**Status :** Correct

**Marks :** 1/1

5. Which of the following is true about method overriding in Java?

**Answer**

The method must have the same name, same parameters, and must be in different classes with an inheritance relationship

**Status :** Correct

**Marks :** 1/1

6. What will be the output of the following Java program?

```
class Test {  
    void show(int a) {  
        System.out.println("Integer method");  
    }  
}
```

```

    }
    void show(String s) {
        System.out.println("String method");
    }
    public static void main(String[] args) {
        Test obj = new Test();
        obj.show(null);
    }
}

```

**Answer**

String method

**Status :** Correct

**Marks :** 1/1

7. Which of the following is the correct way for class B to inherit from class A?

**Answer**

class B extends A {}

**Status :** Correct

**Marks :** 1/1

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

```

class A {
    public int i;
    private int j;
}
class B extends A {
    void display() {
        super.j = super.i + 1;
        System.out.println(super.i + " " + super.j);
    }
}
class inheritance {
    public static void main(String args[]) {
        B obj = new B();
    }
}

```

```
obj.i=1;
obj.j=2;
obj.display();
}
}
```

**Answer**

Compile Time Error

**Status :** Correct

**Marks :** 1/1

9. What will be the output of the following Java program?

```
class Vehicle {
    void startEngine() {
        System.out.println("Vehicle engine started");
    }
}
```

```
class Car extends Vehicle {
    void startEngine() {
        System.out.println("Car engine started");
    }
}
```

```
class Main {
    public static void main(String[] args) {
        Vehicle myVehicle = new Car();
        myVehicle.startEngine();
    }
}
```

**Answer**

Car engine started

**Status :** Correct

**Marks :** 1/1

10. What will be the output of the following Java program?

```
class Test {  
    void display(int a, int b) {  
        System.out.println("Method 1");  
    }  
    void display(double a, double b) {  
        System.out.println("Method 2");  
    }  
    public static void main(String[] args) {  
        Test obj = new Test();  
        obj.display(10, 10.0);  
    }  
}
```

**Answer**

Method 2

**Status :** Correct

**Marks :** 1/1

11. What will be the output of the following Java program?

```
class Vehicle {  
    void start() {  
        System.out.println("Vehicle starts");  
    }  
}  
class Car extends Vehicle {  
    void start() {  
        System.out.println("Car starts");  
    }  
}  
class ElectricCar extends Car {  
    void start() {  
        System.out.println("Electric Car starts silently");  
    }  
}  
class Test {  
    public static void main(String[] args) {
```

```
Vehicle v = new ElectricCar();
v.start();
}
}
```

**Answer**

Electric Car starts silently

**Status :** Correct

**Marks :** 1/1

12. What will be the output of the following Java program?

```
class A {
    int value = 10;
    void display() {
        System.out.println("A's display: " + value);
    }
}
class B extends A {
    int value = 20;
    void display() {
        System.out.println("B's display: " + value);
    }
}
class Test {
    public static void main(String[] args) {
        A obj = new B();
        obj.display();
        System.out.println("Value: " + obj.value);
    }
}
```

**Answer**

B's display: 20 Value: 10

**Status :** Correct

**Marks :** 1/1

13. Select the correct keyword for implementing inheritance through the class.



**Answer**

extends

**Status :** Correct

**Marks :** 1/1

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

```
class A {  
    void display() {  
        System.out.println("Display A");  
    }  
}  
  
class B extends A {  
    void display() {  
        System.out.println("Display B");  
    }  
}  
  
class C extends B {  
    void display() {  
        super.display();  
    }  
}  
  
class Test {  
    public static void main(String[] args) {  
        C obj = new C();  
        obj.display();  
    }  
}
```

**Answer**

Display B

**Status :** Correct

**Marks :** 1/1

15. What will be the output of the following Java program?

```
class Parent {  
    void show() {  
        System.out.println("Parent class");  
    }  
}  
class Child extends Parent {  
    void show() {  
        System.out.println("Child class");  
    }  
}  
class Test {  
    public static void main(String[] args) {  
        Parent obj = new Child();  
        obj.show();  
    }  
}
```

**Answer**

Child class

**Status :** Correct

**Marks :** 1/1