

# 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 6\_MCQ

Attempt : 1

Total Mark : 15

Marks Obtained : 13

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

1. 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**

2. 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**

3. 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 A Class B Class C

**Status :** Correct

Marks : 1/1

4. 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**

## Compilation error due to ambiguous method call

**Status : Wrong**

**Marks : 0/1**

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

## **Answer**

extends

Status : Correct

Marks : 1/1

6. 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

7. 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

8. 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**

9. 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**

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**

Compilation error

**Status : Wrong**

**Marks : 0/1**

11. 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**

12. 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**

13. 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**

14. 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**

15. 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**