

Rajalakshmi Engineering College

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Department: CSE - Section 2

Batch: 2028

Degree: B.E - CSE

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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 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. 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 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

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

Answer

extends

Status : Correct

Marks : 1/1

5. 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

6. 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

7. 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

8. 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

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

Answer

The method must have the same name and different parameters in both the parent and child class

Status : Wrong

Marks : 0/1

10. 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

11. 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

12. 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

13. 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

14. 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

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