

Rajalakshmi Engineering College

Name: DHARINI BALA MURUGAN .
Email: 241501044@rajalakshmi.edu.in
Roll no: 241501044
Phone: 8754111345
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. Select the correct keyword for implementing inheritance through the class.

Answer

extends

Status : Correct

Marks : 1/1

2. 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

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 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

5. 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

6. 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

7. 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

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. 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

11. 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");
    }
}
```

```
241501044 class C extends B {  
241501044     void print() {  
241501044         System.out.println("Class C");  
241501044     }  
241501044 }  
241501044  
241501044 class Test {  
241501044     public static void main(String[] args) {  
241501044         C obj = new C();  
241501044         obj.display();  
241501044         obj.show();  
241501044         obj.print();  
241501044     }  
241501044 }
```

Answer

Class A Class B Class C

Status : Correct

Marks : 1/1

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

```
241501044 class Vehicle {  
241501044     void startEngine() {  
241501044         System.out.println("Vehicle engine started");  
241501044     }  
241501044 }
```

```
241501044 class Car extends Vehicle {  
241501044     void startEngine() {  
241501044         System.out.println("Car engine started");  
241501044     }  
241501044 }
```

```
241501044 class Main {  
241501044     public static void main(String[] args) {  
241501044         Vehicle myVehicle = new Car();  
241501044         myVehicle.startEngine();  
241501044     }  
241501044 }
```

}

Answer

Car engine started

Status : Correct

Marks : 1/1

13. 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

14. 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

15. 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