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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 : 14

Section 1 : MCQ

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

```java
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

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

```java
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*

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

```java
class A {
    void display() {
        System.out.println("Display A");
```

```java
        }
    }

    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***

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

```java
    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*

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

Answer

class B extends class A {}

Status : Wrong   *Marks : 0/1*

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

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

```java
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*

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

```java
class A {
    public int i;
    private int j;
}
class B extends A {
    void display() {
        super.j = super.i + 1;
```

```java
        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. 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***

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

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

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

```java
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*

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

```java
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;
    }
}
```

```java
}
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*

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

Answer

extends

Status : Correct   *Marks : 1/1*

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

```java
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

14. 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*

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

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

```java
        }
    }

    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***