1. **Predict the output**

class T {

int t = 20;

}

class Main {

public static void main(String args[]) {

T t1 = new T();

System.out.println(t1.t);

}

}

a) 20 b) 0

c) Compiler Error

1. **Predict the output**

class T {

int t = 20;

T() {

t = 40;

}

}

class Main {

public static void main(String args[]) {

T t1 = new T();

System.out.println(t1.t);

}

}

A

a) 20 b) 40

c) Compiler Error

1. **Which of the following is/are true about constructors in Java?**

1) Constructor name should be same as class name.

2) If you don't define a constructor for a class, a default parameter less constructor is automatically

created by the compiler.

3) The default constructor calls super() and initializes all instance variables to default value like 0, null.

4) If we want to parent class constructor, it must be called in first line of constructor.

1. **Is there any compiler error in the below Java program?**

class Point {

int m\_x, m\_y;

public Point(int x, int y) { m\_x = x; m\_y = y; }

public static void main(String args[])

{

Point p = new Point();

}

}

Run on IDE

a) Yes B) No

1. **Output of following Java program**

class Point {

int m\_x, m\_y;

public Point(int x, int y) { m\_x = x; m\_y = y; }

public Point() { this(10, 10); }

public int getX() { return m\_x; }

public int getY() { return m\_y; }

public static void main(String args[]) {

Point p = new Point();

System.out.println(p.getX());

}

}

a) 10 b) 0 c) compiler error

1. **Output of following Java program**

final class Complex {

private double re, im;

public Complex(double re, double im) {

this.re = re;

this.im = im;

}

Complex(Complex c)

{

System.out.println("Copy constructor called");

re = c.re;

im = c.im;

}

public String toString() {

return "(" + re + " + " + im + "i)";

}

}

class Main {

public static void main(String[] args) {

Complex c1 = new Complex(10, 15);

Complex c2 = new Complex(c1);

Complex c3 = c1;

System.out.println(c2);

}

}

a) Copy constructor called, (10.0 + 15.0i)

b) Copy constructor called, (0.0 + 0.0i)

c) (10.0 + 15.0i)

c) (0.0 + 0.0i)

1. **Output of following Java program**

class Test{

static int a;

static{

a = 4;

System.out.println ("inside static block");

System.out.println ("a = " + a);

}

Test()

{

System.out.println ("n inside constructor");

a = 10;

}

public static void func()

{

a = a + 1;

System.out.println ("a = " + a);

}

public static void main(String[] args)

{

Test obj = new Test();

obj.func();

}

}

a) inside static block, a = 4

inside constructor, a = 11

b) Compiler Error

c) Run Time Error

d) inside static block, a = 4

inside constructor, a = 5

e) inside static block, a = 10

inside constructor, a = 11