

R.N.G.PATEL INSTITUTE OF TECHNOLOGY-RNGPIT
(An Autonomous College U/s UGC Act 1956)

B.Voc. SEMESTER-II, SEMESTER END EXAMINATION – SUMMER 2025

Subject Code: 1SD203**Date: 21-05-2025****Subject Name: OBJECT ORIENTED PROGRAMMING WITH
JAVA****Time: 11:00 AM to 01:00 PM****Total Marks: 50****Instructions**

1. It is **compulsory** for students to write **Enrolment No. /Seat No.** on the question paper.
2. Attempt all questions in the question paper.
3. The figures to the right of each question indicate full marks. Make suitable assumptions with proper justification wherever required.
4. Simple, non-programmable scientific calculators are permitted.
5. BL - Bloom's Taxonomy Levels (R-Remember, U-Understanding, A-Application, N-Analyze, E-Evaluate, C-Create), CO - Course Outcomes.

Marks BL CO**Q.1 Multiple-Choice Questions****[05]****(a) Which one is not a key concepts of Object-oriented Programming?****1 R 1****(i) Inheritance****(ii) Polymorphism****(iii) Both (i) and (ii)****(iv) Compilation****(b) What is the output of below code?****1 A 2**

```
public class Main {
    public Main() {
        x = 5;
    }
    public static void main(String[] args) {
        Main myObj = new Main();
        System.out.println(myObj.x);
    }
}
```

(i) 5**(ii) Error****(iii) 55****(iv) None of Above****(c) Which of these is necessary to specify at time of array initialization?****1 U 3****(i) Row****(ii) Column****(iii) Both Row and Column****(iv) None of Above**

(d) Which of these method of Thread class is used to find out the priority given to a thread?	1	R	4
(i) get()	(ii) ThreadPriority()		
(iii) getPriority()	(iv) getThreadPriority()		
(e) Which of these functions is called to display the output of an applet?	1	R	5
(i) display()	(ii) paint()		
(iii) displayApplet()	(iv) PrintApplet()		

Q.2 Attempt Any Three	[15]		
(a) Explain Various OOP Concepts in Java.	5	U	1
(b) What is JVM? Explain JVM Architecture.	5	U	1
(c) Explain the string method compareTo() and substring() with example.	5	U	3
(d) Write Java program to find addition and average of integer numbers stored in an array.	5	A	3
Q.3 Attempt Any Three	[15]		
(a) Define the term Java tokens and Inheritance.	5	R	1
(b) What is constructor? Explain the parameterized constructors with example.	5	U	2
(c) Explain Method overloading in java with example.	5	U	2
(d) Differentiate between class and object.	5	U	2
Q.4 Attempt Any Three	[15]		
(a) Define thread. Explain creation of thread in java with example.	5	U	4
(b) Explain the concept of synchronization in java with example.	5	U	4
(c) Give the difference between an Applet and an Application.	5	U	5
(d) Write a program to create Digital clock in Applet.	5	A	5
