Roll No.:_____   Enrollment No.:_____

Vadodara Institute of Technology
Diploma , Sem-IV, Class Test-1

Subject: OOPS   Subject Code: DI04000021   Date: 10-01-2026
Time: 10:30 to 11:15 am   Discipline:IT   Total Marks: 20

Instructions:
  1. Attempt any two questions.
  2. Make suitable assumptions wherever necessary.
  3. Figures to the right indicate full marks.

Sr.no	Question	Marks
Q1.	(a). Explain the features of Java and discuss why Java is considered a platform-independent language.	04
	(b). Describe JDK, JRE, and JVM with a neat diagram. Explain the role of bytecode in Java program execution.	06
Q2	(a). Write the structure of a Java program and explain the purpose of class keyword and main() method. Write a simple Hello World program and explain the compilation and execution steps.	04
	(b). Explain Java primitive data types. Discuss type conversion and type casting with suitable examples.	06
Q3	(a). Explain control flow statements in Java. Describe if-else ladder and switch-case statements with syntax and examples.	04
	(b). Explain arrays in Java. Describe the declaration, initialization, and traversal of 1D arrays, and give a brief introduction to 2D arrays.	06

*****BEST OF LUCK*****