

Seat No./Enrollment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BACHELOR OF ENGINEERING – SEMESTER 4 – EXAMINATION – SUMMER 2026

Subject Code: 3140705

Date: 04/06/2026

Subject Name: Object Oriented Programming -I

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**
- 4. Simple and non-programmable scientific calculators are allowed.**

- Q.1** (a) Define Object, Class and Instance **03**
(b) List any four features of Object oriented programming language. **04**
(c) Write a java program to sum first n natural numbers. **07**
- Q.2** (a) List and explain any three category of operator in java. **03**
(b) Explain the syntax of loops in java. **04**
(c) With the help of example explain use of break and continue in java. **07**
- OR
- Q.2** (c) Write a code segment to get input from keyboard in java. Import all necessary packages. **07**
- Q.3** (a) Explain abstract method using example. **03**
(b) Write java syntax to create array with five integers. (use array initialization) **04**
(c) Write a java program for adding two 2x2 matrix **07**
- OR
- Q.3** (a) Explain abstract class with the help of example. **03**
(b) Write a java syntax two create a two dimensional array with 3 row and 3 columns. Also initialize the array. **04**
(c) Write a java program to sort an array of five integer in descending order. **07**
- Q.4** (a) Compare run time and compile time exception **03**
(b) List various UI Controls in javaFX **04**
(c) List various classes of java.io package used for Text IO **07**
- OR
- Q.4** (a) With the help of example explain handling events in javaFX. **03**
(b) Define exception. Explain throw and throws. **04**
(c) List various classes of java.io package used for Binary IO. **07**
- Q.5** (a) Compare Set and List in java. **03**
(b) With the help of example explain the priority queue in java. **04**
(c) Draw and explain life cycle of Thread. **07**

OR

Q.5	(a) Compare Vector and Stack.	03
	(b) List various static methods of List	04
	(c) Show the two methods which are used to create a thread in Java.	07
