GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–IV EXAMINATION – SUMMER 2025

Subject Code:3140705   **Date:23-05-2025**
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.**

			MARKS
Q.1	(a)	Explain method overriding and method overloading in Java.	03
	(b)	Demonstrates use of BufferedReader and the readLine() method.	04
	(c)	Define and explain object and class in Java with appropriate example.	07
Q.2	(a)	What is constructor? What is it role? Explain various features/characteristics of constructors.	03
	(b)	What are different types of access modifier?	04
	(c)	What is purpose of using methods? How do you declare a method? How do you invoke a method?	07
		OR	
	(c)	What is difference between final, finally and finalize.	07
Q.3	(a)	What is super class?	03
	(b)	Define interface in java.	04
	(c)	Explain inheritance with example.	07
		OR	
Q.3	(a)	What is use of super keyword?	03
	(b)	What is package concept and Describe the use of package.	04
	(c)	Explain polymorphism with example.	07
Q.4	(a)	Explain use of throw in exception handling with example.	03
	(b)	Explain creation of different shapes in JAVAFX application?	04
	(c)	Explain Generics classes with example.	07
		OR	
Q.4	(a)	Explain difference between throw and throws.	03
	(b)	Write programs to deal with MouseEvents.	04
	(c)	Explain Generics methods with example.	07
Q.5	(a)	Demonstrate use of the Animation, PathTransition.	03
	(b)	Describe the life cycle of a thread object.	04
	(c)	Explain use of Linked List collection class with example.	07
		OR	
Q.5	(a)	Create a radio button using the RadioButton class and group radio buttons using a ToggleGroup.	03
	(b)	Explain runnable interface.	04
	(c)	Explain Sets with examples.	07

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