

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA– SEMESTER - I EXAMINATION- SUMMER-2023**

**Subject Code: 619402**

**Date: 11/07/2023**

**Subject Name: Object Oriented Programming in Java**

**Time: 02:30 PM TO 05:00 PM**

**Total Marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

**Q.1 (a)** List and explain the Java Buzzwords. **07**

**(b)** Why Data Types are important? Explain Java's Primitive Data Types. **07**

**Q.2 (a)** Explain switch statement and while loop with appropriate example. **07**

**(b)** What is constructor? Explain constructor with its characteristics and appropriate example. **07**

**OR**

**(b)** Explain method overloading with appropriate example. **07**

**Q.3 (a)** Explain Java's Access Modifiers with appropriate example. **07**

**(b)** Explain this keyword with appropriate example. **07**

**OR**

**Q.3 (a)** What is inheritance? Explain multilevel inheritance with appropriate example. **07**

**(b)** How Overridden Methods Support Polymorphism? Explain it with appropriate example. **07**

**Q.4 (a)** What is a package? Explain package with simple example. **07**

**(b)** What is interface? Explain multiple inheritance with appropriate example. **07**

**OR**

**Q.4 (a)** What is exception handling? Explain it with try and catch blocks. **07**

**(b)** What is Autoboxing and Unboxing? Explain it with appropriate example. **07**

**Q.5 (a)** Explain collection framework with collection interface, list interface and set interface. **07**

**(b)** What is thread? Explain several states of thread. **07**

**OR**

**Q.5 (a)** Explain Generic class with two type parameters. **07**

**(b)** Explain byte stream and character stream classes in java. **07**

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