

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER I- EXAMINATION- WINTER-2022

Subject Code: 619402**Date: 21/02/2023****Subject Name: Object Oriented Programming in Java****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. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1 (a) Define Following terms(any seven) 07**
(1) Static block
(2) Encapsulation
(3) Synchronized keyword
(4) Finalize method
(5) Calendar class
(6) Autoboxing
(7) Final keyword
(8) Super keyword
- (b) Differentiate between following(any two) 07**
1. While loop and for loop
2. String class and String Buffer class
3. Abstract class and Abstract method
- Q.2 (a) What is Java? Explain Java Buzzwords. 07**
(b) What is inheritance? Explain types of inheritance with example. 07
OR
(b) What is Byte Code? Why java is Platform Independent. Explain work of JVM. 07
- Q.3 (a) Explain any one reference data type with example. 07**
(b) What is exception handling? Discuss the uses of "try", "catch" and "finally" with example 07
OR
- Q.3 (a) What is class? Explain any one wrapper class with example. 07**
(b) What is constructor? Explain constructor overloading and method overloading with Example. 07
- Q.4 (a) What is an interface? How it is important in java? Explain with example. 07**
(b) What is Package? Explain the uses of the keywords "package" and "import". 07
OR
- Q.4 (a) What is collection framework? Explain set and sorted set interface with example. 07**
(b) Explain scanner class with example. 07
- Q.5 (a) What is thread? How thread is created in java? Explain with example. 07**
(b) What is generic class? Explain generic method with example. 07
OR
- Q.5 (a) Explain thread life cycle. 07**
(b) What is file? Discuss any six methods of file class. 07
