

GUJARAT TECHNOLOGICAL UNIVERSITY
M.SC(IT)- INTEGRATED– SEMESTER II- EXAMINATION –SUMMER-2024

Subject Code: 1320504**Date: 15/05/2024****Subject Name: Object oriented Programming in C++****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) Explain access specifier - private and protected	03
	(b) Explain simple exception handling with an example	04
	(c) Explain the principles of OOP	07
Q.2	(a) What is a template in C++?	03
	(b) Explain Static Data Member with an example	04
	(c) What is a stream? Describe various stream classes.	07
OR		
	(c) Explain function overriding with a proper example.	07
Q.3	(a) Explain the use of scope resolution operator with example	03
	(b) Explain STL Components.	04
	(c) What is Inheritance? Explain its types with example.	07
OR		
Q.3	(a) Explain inline function with example	03
	(b) Explain the concept of rethrowing exception with example.	04
	(c) What is Polymorphism? Explain function overloading with example.	07
Q.4	(a) Explain default argument in C++.	03
	(b) Give the difference between call by value and call by reference	04
	(c) What is a Constructor? Explain its types with example.	07
OR		
Q.4	(a) Explain different datatypes of C++.	03
	(b) Explain Virtual Base Class in detail	04
	(c) Explain Operator Overloading in brief	07
Q.5	(a) Explain this pointer with a program.	03
	(b) Explain reference variable with example	04
	(c) Write the difference between POP and OOP	07
OR		
Q.5	(a) Explain Abstract Class with example	03
	(b) Explain the use of 'new' and 'delete' operator	04
	(c) Explain Type Conversion with example.	07
