Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–IV(NEW) – EXAMINATION – SUMMER 2019

Subject Code:2142005   **Date:25/05/2019**
Subject Name: Programming Methodology using C++
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**

Q.1	**(a)**	Define the Following: 1. Local Class 2. Type Cast Operator 3. Abstract Class	**03**
	(b)	Differentiate: OOP Vs POP .	**04**
	(c)	Explain Function Overloading with example.	**07**
Q.2	**(a)**	Explain reference operator & in C++.	**03**
	(b)	Explain Memory Management Operators.	**04**
	(c)	Explain features of Object Oriented Programming.	**07**
		OR	
	(c)	Explain Static data members and member function in detail.	**07**
Q.3	**(a)**	Explain Inline Function with example.	**03**
	(b)	Explain Copy Constructor with example.	**04**
	(c)	Explain Binary Plus Operator Overloading for addition of two complex numbers.	**07**
		OR	
Q.3	**(a)**	Explain destructor with example.	**03**
	(b)	Explain macro with example.	**04**
	(c)	Explain Friend function with example.	**07**
Q.4	**(a)**	Explain 'this' pointer with example.	**03**
	(b)	Explain put(), get(), getline() and write() functions.	**04**
	(c)	Explain type conversion with example.	**07**
		OR	
Q.4	**(a)**	Explain iterators in detail.	**03**
	(b)	Explain access specifiers in detail.	**04**
	(c)	What is Inheritance? Explain Multiple and Hybrid Inheritance in detail.	**07**
Q.5	**(a)**	Explain ios format functions in detail.	**03**
	(b)	What is class hierarchy? Explain with example.	**04**
	(c)	Explain Containers in detail.	**07**
		OR	
Q.5	**(a)**	Explain pure virtual function with example.	**03**
	(b)	Differentiate: Call By Value Vs Call By Reference.	**04**
	(c)	Define – exception. Explain C++ exception handling mechanism with example.	**07**

****