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Seat 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.

- Make suitable assumptions wherever necessary.
 Figures to the right indicate full marks

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

