Seat No.: ____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (OLD)• EXAMINATION – WINTER 2016 Subject Code: 140705 Date: 25/11/2016 Subject Name: Object Oriented and Programming with C++ Time:02:30 PM to 05:00 PM Total Marks: 70 Instructions:							
				11150	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
				Q.1	(a)	Difference between object oriented programming and procedure oriented programming in Detail.	07
	(b)	Describe various operators in C++.	07				
Q.2	(a) (b)	Describe, with examples, the uses of enumeration data types. Explain the visibility and scope resolution operation with example. OR	07 07				
	(b)	Explain the concept of classes and objects in C++. Also, explain the different types of calling the member functions of a class.	07				
Q.3	(a)	Difference between Macro and Inline functions with example.	07				
	(b)	Explain static data and function members with example. OR	07				
Q.3	(a)	Write a program in C ++ to find the sum of two entered complex numbers from different classes and display the sum using a common friend function of both classes.	07				
	(b)	Write a C++ program that overloads + operator to add two complex numbers.	07				
Q.4	(a)	What is a constructor? Which are the special characteristics of constructor Functions? What is the need of "do-nothing" implicit constructor? When the Destructor function invoked?	07				
	(b)	Explain various forms of inheritance with suitable diagrammatic illustrations. OR	07				
Q.4	(a)	What is Exception? Explain Exception Handling Mechanism. Write a program That demonstrates use of multiple catch. Add at least three catch block in your Program.	07				
	(b)	Write a Program that illustrate the concept of fill(), width().	07				
Q.5	(a)	Write a Program for swapping two values of different data types using template.	07				
	(b)	Explain STL with its core components. OR	07				
Q.5	(a)	Define with examples	07				
	(b)	(1) Object (2) polymorphism. (3) Binary file (4) virtual functions Explain Function : seekp(), tellg(), Precision(), Malloc	07				
