Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION - SUMMER • 2014

	•	t Code: 140704 Date: 25-06-2014 t Name: Object Oriented Concepts and Programming	
Ti	me: 1 tructio	10:30 am - 01:00 pm ons: Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	3. (a)	Explain the basic characteristics of object oriented programming.	07
V.1	(b)	Answer Following: 1. Explain Inline function. 2. Explain function overloading.	07
Q.2	(a) (b)	Explain constructor and destructor with examples. Explain function modeling with example. OR	07 07
	(b)		07
Q.3	(a) (b)	Explain Dynamic modeling with Example. What is pure virtual function? And explain abstract class with Example. OR	07 07
Q.3	(a) (b)	Explain link and association and multiplicity with example. Explain friend function with example.	07 07
Q.4	(a) (b)	What is type conversion? Explain the type conversion from basic type to class type and from class type to basic type with examples. Write a program to overload binary operators + (plus), - (minus).	07
	()	OR	
Q.4	(a) (b)	Define Inheritance. Explain different types of Inheritance. Write a program to overload unary operators ++ (increment), (decrement),	07 07
Q.5	(a) (b)	Define class and draw class model of windowing system. Write a program to swap two integers by creating swap function using call by reference.	07 07
0.5	(-)	OR	05
Q.5	(a) (b)	Draw data flow diagram for library management system. Write a program to add private members variables of two classes using friend function.	07 07
