

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV(OLD) • EXAMINATION – WINTER 2016

Subject Code:140704

Date:24/11/2016

Subject Name:Object Oriented Concepts And Programming

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) Differentiate between Procedure oriented programming and Object oriented programming. **07**
(b) Explain constructor and destructor with examples. **07**
- Q.2** (a) Explain Object Oriented Methodology with its five stages. **07**
(b) What do you mean by function over loading? Why it required? Explain it with example. **07**
- OR**
- (b) Explain call by value, call by reference and call by address with example. **07**
- Q.3** (a) Explain function modeling with example. **07**
(b) Explain friend function with example. **07**
- OR**
- Q.3** (a) Explain dynamic modeling with example. **07**
(b) What is pure virtual function? And explain abstract class with Example. **07**
- Q.4** (a) What is Inheritance? Explain different types of Inheritance. **07**
(b) Write a program to overload unary operators ++ (increment), -- (decrement) **07**
- OR**
- Q.4** (a) What is type conversion? Explain type conversion from basic data type to class data type with example. **07**
(b) Write a C++ program to check that the given integer number is prime or not. **07**
- Q.5** (a) Explain static variable and static function. **07**
(b) Write a program to add private members variables of two classes using friend function. **07**
- OR**
- Q.5** (a) What is the purpose of operator overloading? List the C++ operators which cannot be over ridden. Write a function to overload any binary operator and show that how it can be used. **07**
(b) Explain the conditional structures used in C++ program with example. **07**
