

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER- III • EXAMINATION – SUMMER - 2017

Subject Code: 3630004

Date: 07-Jun-2017

Subject Name: Programming with C++

Time: 02:30 PM – 5:00 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)** Answer the following (any seven): **07**
1. RTTI stands for _____.
 2. Give an example of declaring Namespace.
 3. Lists all the access modifiers.
 4. “this” pointer is used _____.
 5. “cin” is used for _____ and “cout” is used for _____.
 6. Write any 5 file input/output functions.
 7. STL stands for _____.
 8. The keyword used to define a constant is _____.
 9. The term used to define “reusability” in object-oriented is _____.
- (b)** What is object-oriented programming? Explain all the features. **07**
- Q.2 (a)** Differentiate between Pass by Value and Pass by Reference with example. **07**
- (b)** Explain reference variable. Discuss various uses of it with suitable example. **07**
- OR**
- (b)** What is an inline function? How it differs from preprocessor? Give suitable example. **07**
- Q.3 (a)** Explain virtual function with suitable example. **07**
- (b)** What do you mean by exception? Explain exception handling with example. **07**
- OR**
- Q.3 (a)** What is operator overloading? How to overload postfix ++ and prefix ++ operator? **07**
- (b)** Explain Namespace with suitable example. Also discuss unnamed namespace. **07**
- Q.4 (a)** What is RTTI? Give suitable example. **07**
- (b)** Write a program to read a text file and print all the vowels from it. The filename should be entered from keyboard. **07**
- OR**
- Q.4 (a)** What do you mean by STL? Explain all the type of containers in STL. **07**
- (b)** Write a program to read two text files and join them and store the contents into a third file. **07**
- Q.5 (a)** Differentiate between function template and class template with example. **07**
- (b)** What is manipulator? Explain with suitable example. **07**
- OR**
- Q.5 (a)** Explain Type Conversion with suitable example. **07**
- (b)** 1. Discuss containership with suitable example. **04**
2. Explain friend function with example. **03**
