

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER– III EXAMINATION – WINTER 2018

Subject Code: 3630004

Date: 09-01-2019

Subject Name: Programming with C++

Time: 10.30 am to 1.00 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 class and structure. **07**
- (b)** What is a local class? Explain local class with suitable example. **07**
- Q.2 (a)** i. Explain inline function with suitable example. **05**
ii. Write a general syntax of nested namespace. **02**
- (b)** What is a static function? Explain static function with suitable example. **07**
- OR**
- (b)** What is a function pointer? Explain function pointer with suitable example. **07**
- Q.3 (a)** What is an explicit constructor? Explain explicit constructor with suitable example. **07**
- (b)** Write a sort note on Koenig lookup. **07**
- OR**
- Q.3 (a)** What is a template function? Explain template function with suitable example. **07**
- (b)** Explain binary operator overloading as friend function with suitable example. **07**
- Q.4 (a)** What are multiple inheritances? Explain drawback of multiple inheritances. **07**
- (b)** What do you mean by extending the namespace? Explain it with suitable example. **07**
- OR**
- Q.4 (a)** Explain container class with suitable example. **07**
- (b)** What is a static function? Explain static function with suitable example. **07**
- Q.5 (a)** Explain multiset sorted associative container with suitable example. **07**
- (b)** Write a C++ program in which design classes such that they support the following statements: **07**
Feet f1(10),f2;
Inch i1;
i1 = f1; // convert feet to inches
f2 = i1; // convert inches to feet
- OR**
- Q.5 (a)** Write a sort note on STL. **07**
- (b)** Explain non type argument with suitable example. **07**
