

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– II • EXAMINATION – SUMMER 2015

Subject Code: 620003

Date: 30/05/2015

Subject Name: Object Oriented Concepts & Programming

Time: 10:30 am To 1:00pm

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)** 1. What do you mean by Object Oriented Programming Language? Explain concept of encapsulation. **03**
2. Differentiate term : Public & Protected **04**
- (b)** What is polymorphism? Explain function overloading in details with different examples. **07**
- Q.2 (a)** 1. Write short note on Inline function. **03**
2. Write short note on exception handling with different components in C++ with example. **04**
- (b)** Differentiate Constructor & Destructor function of C++. **07**
- OR**
- (b)** Explain friend function in details with suitable example. **07**
- Q.3 (a)** Explain concept of default argument & this pointer in C++. **07**
- (b)** What do you mean constructor? List out different types of it. Explain any two types in details. **07**
- OR**
- Q.3 (a)** What is operator overloading? List out different operators which can be overloaded. Write example of how to overload unary operator. **07**
- (b)** What is an Inheritance? List out its different types and explain any two in details. **07**
- Q.4 (a)** How you can achieve run time polymorphism in C++? Explain in details with suitable example. **07**
- (b)** What is IO stream? List out and discuss different member functions of ios used for formatting IO with examples. **07**
- OR**
- Q.4 (a)** Write detail short note on Member Initialization List in C++. **07**
- (b)** Describe Text and Binary Streams and explain process with code to read and Write from text and binary files. **07**
- Q.5 (a)** What is Class? Explain various access modifiers with example. **07**
- (b)** List out and explain various file opening modes. Write a code which can append a data and display data on screen from text file. **07**
- OR**
- Q.5 (a)** What is Namespace? Explain different types of it with suitable example. **07**
- (b)** Explain function template and class template with suitable example. **07**
