

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

Subject code: 620003

Date :02-12-2015

Subject Name: Object Oriented Concepts & Programming (OOCp)

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) Answer the following questions in short. **07**
- (1) What do you mean by Object Oriented Programming language? Give two examples of it.
 - (2) What is default argument in member function?
 - (3) What is an abstract class?
 - (4) What is the main difference between static variable and a normal variable of member function?
 - (5) What is the use of protected access specifier in class?
 - (6) RTTI stands for
 - (7) Define term : Namespace
- (b) (1) Write short note on destructor function with suitable example. **03**
- (2) Differentiate Member function & Non-Member function **04**
- Q.2** (a) (1) Write short note on MIL with suitable example. **04**
- (2) How inline function is differ from preprocessor? Explain with suitable example. **03**
- (b) What do you mean by operator overloading? How unary operator is overloaded? Explain with suitable example. **07**
- OR**
- (b) What is an Inheritance? List out its advantages? Explain any one type of Inheritance in detail. **07**
- Q.3** (a) (1) Is it possible to access private member of a class in non member function? Justify your answer with example. **04**
- (2) Write short note on Function Template with example. **03**
- (b) Write short note on Compile Time & Run Time Polymorphism. **07**
- OR**
- Q.3** (a) (1) Write short note on any two casting operators of C++. **04**
- (2) Differentiate Text & Binary files. **03**
- (b) What is Exception Handling ? Explain its components. **07**
- Q.4** (a) What is Manipulator? Explain with example. **07**
- (b) Write detail short note on constructor with different types. **07**
- OR**
- Q.4** (a) What is a file ? List out different file opening modes? Explain different steps of file handling process. **07**

- Q.4 (b)** What is Type conversion? Explain different methods of Type conversion in C++. **07**
- Q.5 (a)** Write a c++ code which calculate sum of two objects of 3 x 3 matrix using operator over loading. **07**
- (b)** Explain the concept of Call by value & Call by reference in function with example. **07**

OR

- Q.5 (a)** Write detail short note on Standard Template Library **07**
- (b)** Explain Namespace with suitable example. **07**
