

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –II EXAMINATION –SUMMER-2019

Subject Code:2620002

Date: 17-05-2019

Subject Name: Object-Oriented Programming Concepts & Programming

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)** Do as directed :
1. List applications of Object Oriented Programming Language. **04**
2. What is purpose of static function? Explain with short example. **03**
- (b)** Do as directed :
1. What is destructor? Write rules for writing destructor. **03**
2. How unnamed namespace is used? Explain with example. **04**
- Q.2 (a)** How can we access private members of class in other class? Explain with example. **07**
- (b)** Why do we require inline function? Explain with example. **07**
- OR**
- (b)** Why do we require method overloading? Overload add method for addition of two integers and two float values. **07**
- Q.3 (a)** What is class to class conversion? Explain various approaches for class to class conversion. **07**
- (b)** Why do we require operator overloading? Create a class emp (id, name, age, salary). Overload the << and >> operators. **07**
- OR**
- Q.3 (a)** What is template function and template class? Explain with example. **07**
- (b)** What is constructor? Create a class student(id,name,age,semester). Write default constructor, parameterized constructors and copy constructors. **07**
- Q.4 (a)** What is abstract class? Explain with help of appropriate example. **07**
- (b)** What is polymorphism? How can we archive run time polymorphism. Explain with example. **07**
- OR**
- Q.4 (a)** What is virtual base class? Explain with help of appropriate example. **07**
- (b)** Explain Standard Template Library in details. **07**
- Q.5 (a)** Which functions are used for random access of the file? Explain with example. **07**
- (b)** What is method overriding? Explain with example. **07**
- OR**
- Q.5 (a)** How multiple inheritance can be archived? Explain with example. **07**
- (b)** Why do we require user define exception handling? Write appropriate code to explain the same. **07**
