GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- II EXAMINATION - WINTER 2018 Subject Code: 2620002 Date: 03-01-2019 Subject Name: Object-Oriented Programming Concepts & Programming Time: 02.30 pm to 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)	Explain friend function with suitable example.	07
	(b)	What is inheritance? List its types. Which type of inheritance is having ambiguity? How to overcome it?	07
Q.2	(a)	i. Explain this pointer with suitable example.	05
	(b)	ii. Write a general syntax of destructor. Write a sort note on data types available in C++. OR	02 07
	(b)	What is a copy constructor? Explain copy constructor with suitable example.	07
Q.3	(a) (b)	What is a template class? Explain template class with suitable example. Explain virtual base class with suitable example. OR	07 07
Q.3	(a) (b)	What is a stream? Explain functions seekg(), seekp() tellg(), tellp() in details. Explain member initialization list with suitable example.	07 07
Q.4	(a) (b)	Explain manipulators with suitable example. What is a namespace? Explain namespace alias with suitable example. OR	07 07
Q.4	(a)	What is the importance of RTTI? Discuss the type_info object and typeid operator.	07 07
0.5	(b)	What is a static function? Explain static function with suitable example. What is example a static function bandling? Explain static function with suitable example.	
Q.5	(a) (b)	What is exception handling? Explain catch() with example. Write a program which convert Kilometer object to Meter object and Meter object to Kilometer object.	07 07
0.5	(a)	OR	07
Q.5	(a)	How we can achieve following things? cin>>student1 [It will ask for data member input] cout< <student1 [it="" data="" members="" object]<="" of="" print="" td="" will=""><td>07</td></student1>	07
	(b)	student1 is object of student class. Explain principles behind design of STL.	07
