Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- III • EXAMINATION – SUMMER - 2017

Subject Code: 3630004		Code: 3630004 Date: 07-Jun-20	Date: 07-Jun-2017	
	-	Name: Programming with C++		
	-	02:30 PM – 5:00 PM Total Marks: 70		
	tructio			
	1.	Attempt all questions.		
		Make suitable assumptions wherever necessary.		
		Figures to the right indicate full marks.		
Q.1	(a)	Answer the following (any seven):	<b>07</b>	
		1. RTTI stands for		
		2. Give an example of declaring Namespace.		
		3. Lists all the access modifiers.		
		<ul><li>4. "this" pointer is used</li><li>5. "cin" is used for and "cout" is used for</li></ul>		
		5. "cin" is used for and "cout" is used for		
		6. Write any 5 file input/output functions.		
		7. STL stands for		
		8. The keyword used to define a constant is		
	<b>(3.</b> )	9. The term used to define "reusability" in object-oriented is		
	<b>(b)</b>	What is object-oriented programming? Explain all the features.	07	
Q.2	(a)	Differentiate between Pass by Value and Pass by Reference with example.	07	
	<b>(b)</b>	Explain reference variable. Discuss various uses of it with suitable example.  OR	07	
	<b>(b)</b>	What is an inline function? How it differs from preprocessor? Give suitable example.	07	
Q.3	(a)	Explain virtual function with suitable example.	07	
<b>Q.</b>	(b)	What do you mean by exception? Explain exception handling with example.  OR	07	
Q.3	(a)	What is operator overloading? How to overload postfix ++ and prefix ++ operator?	07	
	<b>(b)</b>	Explain Namespace with suitable example. Also discuss unnamed namespace.	07	
Q.4	(a)	What is RTTI? Give suitable example.	07	
	<b>(b)</b>	Write a program to read a text file and print all the vowels from it. The filename should be entered from keyboard.	07	
		OR		
Q.4	(a) (b)	What do you mean by STL? Explain all the type of containers in STL. Write a program to read two text files and join them and store the contents into a third file.	07 07	
Q.5	(a)	Differentiate between function template and class template with example.	07	
Q.S	(b)	What is manipulator? Explain with suitable example.  OR	07	
Q.5	(a)	Explain Type Conversion with suitable example.	07	
£	(b)	1. Discuss containership with suitable example.	04	
	(-)	2. Explain friend function with example.	03	
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