Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- III • EXAMINATION - WINTER - 2016

	•	Code: 3630004 Date: 06/01/2017	'
Su	bject	Name: Programming with C++	
Tiı	me: 1	10:30 AM – 1:00 PM Total Marks: 70	
Inst	tructio		
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
2.4		Figures to the right indicate full marks.	^=
<b>Q.1</b>	(a)	Fill in the blanks:	07
		i)object oriented feature indicates software reusability.	
		ii) keyword is used to access variable in namespace.	
		iii) In C++, we can throw only error at a time.	
		iv)function declarations are always denoted by '=0'.	
		v)function is used to enter a string with white spaces.	
		vi)functions can be preferred over macros.	
		vii)ios:: forces a float with an integer value to be printed with its decimal point and trailing zeroes.	
	<b>(b)</b>	What do you mean by a reference variable? Also explain pass-by-reference with	07
	( )	suitable example.	
Q.2	(a)	Explain prefix ++ and postfix ++ operator. How they can be overloaded?	07
Q.2	(a)	Explain with suitable example.	07
	<b>(b)</b>	Explain user defined conversion function which converts user-defined object to	07
	(6)	built-in data type.	07
		OR	
	<b>(b)</b>	Explain overloading of the = and [] operators using suitable examples.	07
0.3			07
Q.3	(a)	Explain the overloading of >> and << operators with suitable example.	07
	<b>(b)</b>	Explain the exception-handling in C++ with suitable example. <b>OR</b>	07
O 2	(a)	Explain RTTI. What is the role of typeid operator and type_info object?	07
Q.3	(a) (b)	Explain NTTI. What is the fole of typeld operator and type_mio object?  Explain overloading of a template function with suitable example.	07
	(D)	Explain overloading of a template function with suitable example.	U/
<b>Q.4</b>	<b>(a)</b>	Differentiate between manipulators and ios functions? Discuss any two	<b>07</b>
		manipulators.	
	<b>(b)</b>	Explain any 7 file input-output functions with syntax and example.	<b>07</b>
		OR	
Q.4	(a)	Write a program to input your full name and store it into a file called	<b>07</b>
		"name.txt". Also display the contents from the file.	
	<b>(b)</b>	Write a program to read two filenames and copy the contents of first file into	<b>07</b>
		the second file. Implement necessary validations.	
Q.5	(a)	Explain STL with suitable example.	07
•	(b)	Explain MIL with suitable example.	07
	\ - <i>/</i>	OR	
Q.5	(a)	Explain inline function with suitable example. Also discuss its advantages and	07
-		disadvantages. Differentiate between macro and inline function.	
	<b>(b)</b>	Explain namespace? Why is required? Can we use cin without "using	07
	` /	namespace std" in our program? What is unnamed namespace?	

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