Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- III • EXAMINATION – WINTER - 2016

Subject Code: 3630004 Date: 06/		t Code: 3630004 Date: 06/01/2017	01/2017	
Su	bject	t Name: Programming with C++		
Tiı	me: 1	10:30 AM – 1:00 PM Total Marks: 70		
Ins	tructi			
		Attempt all questions.		
		Make suitable assumptions wherever necessary.Figures to the right indicate full marks.		
Q.1		Fill in the blanks:	07	
Ų.1	(a)	i)object oriented feature indicates software reusability.	07	
		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)	What do you mean by a reference variable? Also explain pass-by-reference with suitable example.	07	
Q.2	(a)	Explain prefix ++ and postfix ++ operator. How they can be overloaded?	07	
		Explain with suitable example.		
	(b)	Explain user defined conversion function which converts user-defined object to built-in data type.	07	
	<i>a</i> >	OR		
	(b)	Explain overloading of the = and [] operators using suitable examples.	07	
Q.3	(a)	Explain the overloading of >> and << operators with suitable example.	07	
	(b)	Explain the exception-handling in C++ with suitable example.	07	
		OR		
Q.3	(a)	Explain RTTI. What is the role of typeid operator and type_info object?	07	
	(b)	Explain overloading of a template function with suitable example.	07	
Q.4	(a)	Differentiate between manipulators and ios functions? Discuss any two manipulators.	07	
	(b)	Explain any 7 file input-output functions with syntax and example. OR	07	
Q.4	(a)	Write a program to input your full name and store it into a file called "name.txt". Also display the contents from the file.	07	
	(b)	Write a program to read two filenames and copy the contents of first file into the second file. Implement necessary validations.	07	
Q.5	(a)	Explain STL with suitable example.	07	
	(b)	Explain MIL with suitable example.	07	
		OR		
Q.5	(a)	Explain inline function with suitable example. Also discuss its advantages and disadvantages. Differentiate between macro and inline function.	07	
	(b)	Explain namespace? Why is required? Can we use cin without "using namespace std" in our program? What is unnamed namespace?	07	
