GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-1/2 EXAMINATION - WINTER 2017				
Su	biect	Code: 110003 Date: 05/01/202	18	
Subject Name: Computer Programming & Utilization		Name: Computer Programming & Utilization 10:30 AM TO 01:00 PM Total Marks: '		
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Differentiate between Algorithm and Flowchart. Draw a flowchart to print the largest digit among three integer digits.	0′	
	(b)	What is type casting and enumerated data type? Write a C program that demonstrates the use of type casting.	0'	
Q.2	(a)	Explain different operators in C.	0'	
	(b)	With appropriate examples explain different tokens used in C.	0′	
Q.3	(a)	Write a program to print Fibonacci series.e.g.0, 1, 1, 2, 3, 5, 8, 13.	0′	
	(b)	Explain break, continue and goto statements. Write a program to sum 1 to n numbers using goto statement.	0′	
Q.4	(a)	Write a program to check whether a number is a perfect number or not.(e.g. 123 is a perfect no i.e.1+2+3=1*2*3)	0'	
	(b)	Write a menu driven program for simple calculator using switch-case statement.	0′	
Q.5	(a)	Define an array. Write a program to sum and average an array of 10 integer numbers.	0'	
	(b)	Explain declaration and initialization of one dimensional, two one dimensional and multi-dimensional arrays.	0'	
Q.6	(a)	Differentiate between function call by value and call by reference giving examples of each.	0'	
	(b)	Explain in detail Dynamic memory allocation.	0'	
Q.7	(a)	Differentiate between Structure and Union giving examples.	0′	
	(b)	Explain the following File Handling functions :(i) fseek() (ii) ftell() (iii)rewind() (iv) feof() (v) fputc() (vi) remove() (vii) fflush()	0′	
