Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-I & II Remedial Examination Nov/ Dec. 2010

Subject code: 110003 Subject Name: Computer Programming and Utilization Date: 30 / 11/ 2010 Time: 10.30 am – 01.00 pm Total Marks: 70					
Ingti	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ions:			
11150	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.			
Q.1	(a)	Answer the following Questions. (i) Explain in brief the features of C language. (ii) Explain logical operator and relational operator used in C language. (iii) Draw a flow chart to find the smallest number out of three given numbers.	12		
	(b)	What is "structure"? How do we declare and access structure variables?	02		
Q.2	(a)	(i) Explain "ifelseif" ladder of C with neat diagram and a brief program code.	07		
	(b)	 (ii) Explain the concept of Class and Object used in C++ giving suitable example. Answer the following Questions.(Any TWO) (i) Compare for loop and while loop with illustration. (ii) What are the characteristics of constructor in C++? Explain its use with example. (iii) What do you mean by recursive function? Explain with small example. 	07		
Q.3	(a)	Write a program to generate fibbonacci series of numbers (total 20 numbers) i.e. 1, 1, 2, 3, 5, 8etc	05		
	(b) (c)	List out the categories of functions of C. Explain any one category with example.	04 05		
		OR			
Q.3	(a)		04		
	(b) (c)		05 05		
Q.4	(a)	two matrices in the resultant matrix.	06		
	(b)	 i.e. C=A + B, where A,B,C each one is 5 X 5 Matrix. Write the short notes on following. (i) Polymorphism (ii) Difference between Object Oriented and Procedure Oriented language. 	08		
		OR			
Q.4	(a)		06		

(b) Write the short notes on following.

(i) Inheritance. (ii) Friend Function.

08

Ų.5	(a)	statement.	04
	(b)	Write a program to print the following triangle for n lines	06
		*	
		* *	
		* * *	
		* * * *	
		upto n such Lines	
	(c)	State the difference between Structure and Union.	04
		OR	
Q.5	(a)	Explain the different data types of C language	05
	(b)	Write a C Program to check whether the given number is prime or not.	05
	(c)	What is inline function? Explain with example.	04