GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-I Remedial examination March 2009

Subject code: 110003

Subject Name: Computer Programming and Utilization
Date: 17 / 03 /2009 Time: 02:00pm To 4:30pm

Instructions:

	2. Ma	empt all questions. ake suitable assumptions wherever necessary. sures to the right indicate full marks.	
Q.1			14
	(a)	Describe various types of computer languages and mention its advantages and disadvantages	
	(b)	What is Algorithm and flowchart? Explain both with some suitable example	
Q.2	(a)	Define any <u>fourteen</u> from the following (1) Token (2) Identifier (3) Constant (4) Type casting (5) Destructor (6) Storage class (7) Inline function (8) Friend function (9) Call by value (10) Call by reference (11) Pointer (12) Scope and life time of variable (13) Turnery operator (14) Object (15) 'void' – data type (16) Dynamic memory allocation	14
Q.3	(-)		14
	(a)	What is an Array? Explain multidimensional array with suitable sample program in 'C'	
	(b)	Define syntax of Functions in 'C', Write a sample program in to and demonstrate usage of "Function with arguments and return values or	
Q.3		OI .	14
	(a)	How to initialize Pointer? Explain arrays of pointer using suitable sample program	
	(b)	Describe various string handling operation using sample 'C' codes	
Q.4			14
	(a) (b)	Describe nested Structures and demonstrate using 'C' program Explain difference between unions and structures	
Q. 4		or	14
-	(a) (b)	Explain features of object oriented programming language Write a C++ program to demonstrate memory allocation for objects	
Q.5	(a)	Explain the usage of constructor and destructor in C++	14
	(a) (b)	Write a C++ program to demonstrate copy constructor	
~ -	. ,	or	
Q.5	(a) (b)	Write short note on Polymorphism Draw block diagram of computer and explain each block	14

Total Marks: 70