Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-II [All Branch] examination June 2009

Subject code: 110003

Subject Name: Computer programming & Utilization Date: 10/06/2009 Time: 10:30am-1:0

Time: 10:30am-1:00pm Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1

- (a) Draw flowchart to solve following series $1! + 2! + 3! + \dots + n!$ 05
- (b) Compare Procedure oriented and Object oriented programming. **04**
- (c) Write a C- program read in an array of integers and print its 05 elements in reverse order.

Q.2

(a) Find out the output of following C code. Assume all the libraries 07 have been included and code is syntactically corrected.
 (i)

int iX=7,iY=8,iZ=9; printf("\n %d %d %d",++iX,iX,iX++); printf("\n %d %d %d", iZ,++iZ,iZ++);

printf("\r printf("\r townoolegantic void main() ;

int iA = 6, iB = 6; int *P1 = &iA, *P2 = &iB; printf("\n %d",(*P1)++); printf("\n %d",--(*P2)); printf("\n %d", ++(*P2)-*P1);

- (b) Explain various types of loop available in C with example. 07
 OR
 (b) Draw block diagram of computer and explain each block. 07
- (a) Explain various types of operator available in C 07
 (b) What is type conversion? Explain implicit type conversion and 07

explicit type conversion with example **OR**

Q.3

Q.3

- (a) Explain operator precedence and associativity
 (b) Explain break and continue with example
 (c) What do you mean by recursive function? Explain with example.
 05
 - 1

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Q-4

- (a) Define following
 - I. Operating System
 - II. Compiler
 - III. Application software
 - IV. System Software
- (b) What is pointer ?Explain Array of pointer with example. **05**
- (c) Write a function (using a pointer parameter) that calculate maximum **05** element from given array of integer numbers.

OR

Explain nested structure with example.

05

04

- (b) What is user-defined function? Explain Actual argument and formal **04** argument.
- (c) Write a program to that read two string and compare them using the 05 function strcmp() and print the message that first string is equal, less, greater than the second one.

Q.5

Q.5

Q. 4

(a)

(a)	Define Following	05
	a) Define following terms	
	I. Class	
	II. Object	
	III. Dynamic binding	
	IV. Polymorphism	
	V. Destructor	
(b)	Explain characteristic of static data member and static member	05
	function.	
(c)	Explain various type of Access modifier in C++.	04
	From OR	
(a)	What are the different forms of Inheritance? Explain each form with	05
	example.	
(b)	What is friend function? Describe its characteristic.	05
(c)	State whether following statement are true or false	04
	Function can not return class objects	
	II. A function designed as public can not be accessed like	

- any other ordinary functions
- III. Destructor never take any argument
- IV. Inheritance aids data hiding **********