Seat No.:	Enrolment No.
~ • • • • • • • • • • • • • • • • • • •	

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC SEM-1 Examination-Dec-2011	
Subject code: X10002	Date: 27/12/2011

J			
Subject Name:	Computer P	Programming	& Utilization

Time: 10.30 am -1.00 pm	Total marks: 70
1 me: 10.30 am -1.00 pm	i otai marks:

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Q.1 (a) What is pointer? Write a program to do swapping of two elements using pointers. 07
 - (b) What is difference between 'for' loop and 'while' loop.

 Write a program using 'for' loop.

- Q.2 (a) Draw the Block Diagram of Computer Architecture and explain each block with its 07 functions.
 - (b) How to define and declare Single dimensional array. Write a C program to arrange 07 single dimensional array of 5 elements in Ascending order.

OF

- (b) What is the difference between 'while' loop and 'do while' loop. Write a program using 'while' loop to reverse the digits of the number. For example the number is 12345 should be printed as 54321.
- Q.3 (a) Write a Program to demonstrate the "call by value" and "call by reference" concept 07 in C
 - **(b)** Describe various string handling operation using sample 'C' codes

OR

- Q.3 (a) List out the categories of functions. Explain any one category with example. Also 07
 Explain difference between unions and structures.
 - **(b)** Explain Nesting of IF...ELSE statement and the ELSE....IF ladder with example.
- Q.4 (a) Explain the usage of constructor and destructor in C++. Write a C++ program to 07 demonstrate the use of Constructor and Destructor.
 - **(b)** Explain features of object oriented programming language

OR

- Q.4 (a) Write a C++ Program to demonstrate the operators' hierarchy
 - (b) Give comparison of Static Memory Allocation and Dynamic Memory 07 Allocation with a code snippet.
- Q.5 (a) What is Friend function? Write a C++ Program to show usage of Friend Function. 07
 - (b) Describe various types of Inheritance

OR

- Q.5 (a) Write short note on Polymorphism 07
 - (b) Write a C++ program to demonstrate copy constructor

07

07

07

07

07