Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY			
PDDC - SEMESTER-I - EXAMINATION - SUMMER 2017 Subject Code: X10002 Date:30/05/2017 Subject Name: COMPUTER PROGRAMMING & UTILISATION Time: 02:30 PM to 05:00 PM Total Marks: 70			
	truction		70
	1.	Attempt Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	What is algorithm and flowchart? Explain both with some suitable example. Give the difference between (1) Hardware and Software (2) Compiler and Interpreter	07 07
Q.2	(a)	What is an Array? Explain multidimensional array with suitable example in 'C'.	07
	(b)	Describe various string handling operation using 'C' programming.	07
Q.3	(a)	Define object and class and give comparison of object oriented language and procedural language.	07
	(b)	Draw flowchart to do the sum of 10 elements read from user.	07
Q.4	(a) (b)	Draw block diagram of computer system and explain it's various components. What is the use of constructor and destructor in C++ program? Write a C++ program to demonstrate the use of constructor and destructor.	07 07
Q.5	(a) (b)	Explain Branching and Looping with example code. Write a program to check the category of given character. Digit, Lower case, Upper case or Other symbol.	07 07
Q.6	(a)	Write a program to demonstrate "call by value" and "call by reference" in C	07

7 programming.

What is a user defined data type? What is the scope and life time of variable? **(b) 07** Explain using C++ program.

Q.7 What is friend function? Write a C++ program to show the usage of friend **07** (a)

Write a program in C to reverse the input string. **(b)**

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