Seat	$N_{\Omega}$ .	
Scal	INU	

**Subject Code: CPU002** 

Date: 30/12/2015

## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-1<sup>st</sup> / 2<sup>nd</sup> (SPFU) EXAMINATION- WINTER 2015

T	ime: struct	et Name: Computer Programming and Utilization-2 10:30am to 01:00pm Total Marks: 70 ions: 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks	
<b>Q.1</b>	(a)	What is file? List the various file handling operations in C with sample program.	07
	(b)	Explain different type of functions used in C language. Write a program using function to find maximum from two numbers.	07
Q.2	(a)	Explain the use of malloac and calloc function with sample program.	07
	<b>(b)</b>	What is structure and union? Explain them in brief.	07
Q.3	(a)	Design a structure student_record to contain name, branch and total marks obtained. Write a C program to read data for 10 students in a class and print them.	07
	(b)	Write a program to access elements using pointer.	07
Q.4	(a)	How to initialize Pointer? Explain arrays of Pointer using suitable sample program.	07
	<b>(b)</b>	Write a C program to arrange array of N elements in to ascending order.	07
Q.5	(a)	Write a function program to find out average of first n numbers, where n is entered through keyboard.	07
	<b>(b)</b>	Write a c program to check the no. is Palindrome using function.	07
Q.6	(a)	Define array. Explain one, two, and multidimensional arrays.	07
	<b>(b)</b>	Write a program in C for multiplication of two matrix.	07
Q.7	(a)	Write a program to solve Quadratic Equation.	07
	<b>(b)</b>	Write a program to read a string from file and print on screen.	07