Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY BE SEMESTER- 1st / 2nd (SPFU) EXAMINATION – WINTER 2016

	ject Code: CPU002 ject Name: Computer Programming and Utilization	Date: 24/01/2017	
	Time:10:30 AM TO 1:00 PM Total Marks: 70 Instructions:		
	 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 		
Q.1	(a) What is Dynamic Memory Allocation ? Explain memory a	allocation function briefly.	07
	(b) What is function ? What is user defined function ? Explain actual argument and formal argument.		07
Q.2	(a) Write a c program to check the no. is Palindrome using fu	Write a c program to check the no. is Palindrome using function.	
	(b) What is structure and union? Explain them in brief .		07
Q.3	3 (a) Using structure write a C program: Define a structure student_record to name,branch and entry year. Read this information from keyboard and print the s screen.		
	(b) Explain different file management functions in C shortly.		07
Q.4	(a) What are the different categories of functions ? Explain any two category with example		07
	(b) Write a C program to find factorial of a given number usin	g recursion.	07
Q.5	(a) How to initialize Pointer? Explain arrays of Pointer using	suitable sample program.	07
	(b) Explain the difference between call by value and call by Example.	reference with suitable	07
Q.6	(a) Explain with suitable example pointer to structure.		07
	(b) Describe variable declaration in structure and accessing m	embers of structure.	07
Q.7	(a) What is structure? How does a structure differ from an arr initialized ?	ay? How is an array of strue	cture 07
	(b) Write a function program to find out average of first through keyboard.	n numbers, where n is ent	tered 07