Seat No.: \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY BE SEM- I / II Examination-Dec.-2011

Subi	ect (	code: 110003 Date: 27/12/2011	
Subj Time	ect 1 2: 10	Name: Computer Programming and Utilization 0.30 am -1.00 pm Total marks: 70	
Instru	1. 2.	is: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	<ul> <li>Answer the following.</li> <li>(i) Explain printf() and scanf() giving their syntex.</li> <li>(ii) What is recursion? Explain it with suitable example.</li> <li>(iii) Write short note on Pointer.</li> <li>(iv)Explain switchcase statement.</li> </ul>	12
	(b)		02
Q.2	(a)		07
	(b)	number out of three given numbers. Write a program in C to generate Fibonacci series like following: 1, 1, 2, 3, 5, 8, 13 Generate 20 such numbers.	07
Q.3	(a)	Draw the Block diagram of Computer System and explain.	07
	(b)	Write a program to display following pattern using nested for loops. * * * * * * * * * * * * *	07
Q.4	(a) (b)	<ul> <li>Explain various operators used in C language.</li> <li>Explain how string is defined in C. Write user defined functions for the following: <ul> <li>(i) strlen(): to find length of string.</li> <li>(ii) strcat(): to concate two strings.</li> </ul> </li> </ul>	07 07
Q.5	(a) (b)		08 06
Q.6	(a)	Average of them.	08
	(b)	What is used defined function? Explain types of functions with example.	06
<b>Q.7</b>	(a)	What is structure? Explain with example how to declare a structure and how to initialize it.	04
	(b)		10

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