Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– 1ˢᵗ / 2ⁿᵈ • EXAMINATION – SUMMER • 2014

Subject Code: 110003   **Date: 23-06-2014**
Subject Name: Computer Programming and Utilization
Time: 02:30 pm - 05:00 pm   **Total Marks: 70**
Instructions:
1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	(a)	What is Flowchart and Algorithm? Draw flowchart to print sum of numbers between 1 to 100 which are divisible by 3 and 5.	**07**
	(b)	State and explain features of C language.	**04**
	(c)	Explain types of languages used.	**03**
Q.2	(a)	Explain different types of operators with examples.	**07**
	(b)	Explain C Tokens.	**04**
	(c)	Explain break statement with examples.	**03**
Q.3	(a)	Write a "C" Program that reads number from 1 to 7 and accordingly it Should print MONDAY to SUNDAY.	**07**
	(b)	Explain Switch case with examples.	**04**
	(c)	What is local and Global variable? Explain with examples.	**03**
Q.4	(a)	Write a C program check given string is pelindrom or not.	**07**
	(b)	Explain while,do while and for loops with examples.	**04**
	(c)	Explain scope and life time of variable.	**03**
Q.5	(a)	What is recursive function? Explain with example.	**07**
	(b)	Write a function which accepts a string and returns the length of the string.	**04**
	(c)	Show the use of the malloc() function.	**03**
Q. 6	(a)	Explain the difference between "call by reference" and "call by value" with suitable example	**07**
	(b)	What is pointer? Clear it with examples and give its use.	**04**
	(c)	Explain difference between Structure and Union.	**03**
Q.7	(a)	Explain the difference String functions used in C with suitable example	**07**
	(b)	Explain showing proper syntax, following file operations: (i) fprintf() (ii) fscanf() (iii) putc() (iv) getc()	**04**
	(c)	List the different file management functions and explain various file modes.	**03**

****