Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- 1^{st} / 2^{nd} • EXAMINATION – SUMMER 2013

	U	Code: 110003 Date: 1/-06-2013	
	•	Name: Computer Programming and Utilization	
	ne: u tructio	2:30 pm – 05:00 pm Total Marks: 70	
	1. 2.	Attempt any five questions.	
Q.1	(a)	Draw block diagram of computer system. Explain each part of it.	05
	(b)	List and explain types of computer languages.	05
	(c)	What is flow chart? Draw the flow chart to add first 20 odd numbers.	04
Q.2	(a)	List and explain fundamental data types of 'C' language.	05
	(b)	Explain different types of operators used in 'C'.	05
	(c)	What is Type conversion and Type casting? State difference between them.	04
Q.3	(a)	What is looping? Explain Entry control and Exit control loops with appropriate flow chart and syntax.	07
	(b)	Write a program to reverse the number. (e.g. $456 \rightarrow 654$)	07
Q.4	(a)	State the syntax of Switch-case statement. Explain it with appropriate example.	07
	(b)	Write a 'C' program to count ODD and EVEN numbers from given 10 numbers.	07
Q.5	(a)	Explain various swing functions.	07
	(b)	Write a 'C' program to count number of words in a given string.	07
Q. 6	(a)	Explain the difference between "call by value" and "call by reference" with suitable	07
	(b)	examples. What is recursive function? Explain with suitable example.	07
Q. 7	(a)	What is pointer? Explain how pointers are declared and initialized.	04
	(b)	Attempt Any two:	10
		(1) Difference between Structure and Union.	
		(2) Write a 'C' program to print following pattern. 5 4 3 2 1 4 3 2 1 3 2 1 2 1 1	
		(3) Explain "if-else-if ladder" with appropriate flow chart and 'C' syntax	