GUJARAT TECHNOLOGICAL UNIVERSITY
B.VOC- SEMESTER–I EXAMINATION – WINTER 2025

Subject Code:1110503 **Date:01-12-2025**

Subject Name: Programming in C

Time:10:30 AM TO 12:30 PM **Total Marks:50**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Simple and non-programmable scientific calculators are allowed.**

			Marks
Q.1	**(a)**	Explain basic structure of C Program.	**05**
	(b)	Draw a flow chart for process of compiling and running a C program.	**05**
Q.2	**(a)**	Explain different loops used in C with example.	**05**
	(b)	Write C code to find out largest of 2 numbers using ternary operator.	**05**
		OR	
	(b)	Write a menu driven C program for simple calculator.	**05**
Q.3	**(a)**	How to declare and initialize one-dimensional array? Explain with an example.	**05**
	(b)	Give the difference between if...else and switch statements.	**05**
		OR	
Q.3	**(a)**	Explain various built-in string-handling functions.	**05**
	(b)	Write a C program to find the largest of the given three numbers using nested if...else.	**05**
Q.4	**(a)**	What is user defined function? Explain with example.	**05**
	(b)	Define Structure? How to Initialize a Structure?	**05**
		OR	
Q.4	**(a)**	What is recursion? Explain with example.	**05**
	(b)	Define Union? How to represent an union?	**05**
Q.5	**(a)**	Give the difference between local and global variables.	**05**
	(b)	How can you initialize pointer variable? Explain with example.	**05**
		OR	
Q.5	**(a)**	Explain various storage class in terms of scope, lifetime and visibility of a variable.	**05**
	(b)	Explain seek() and rewind() function with example.	**05**

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