GUJARAT TECHNOLOGICAL UNIVERSITY
B.VOC - SEMESTER– I EXAMINATION – SUMMER 2024

Subject Code: 1110503   **Date:29-05-2024**
Subject Name: Programming in C
Time:02:30 PM TO 04:30 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)**	What is variable? Explain rules to declare a variable.	**05**
	(b)	Write a short note on C program structure.	**05**
Q.2	**(a)**	What is an Array? Explain one dimensional array(1 D) with suitable example.	**05**
	(b)	What is Operator? Explain increment operator(++) with suitable examples.	**05**

OR

	(b)	Explain dynamic initialization of variable with suitable example.	**05**
Q.3	**(a)**	Explain for loop with suitable example.	**05**
	(b)	Write difference between while and do-while loop.	**05**

OR

Q.3	**(a)**	Explain break and continue with example.	**05**
	(b)	What is function? List out types of functions in C.	**05**
Q.4	**(a)**	Explain Switch statement with suitable example.	**05**
	(b)	Define : Token, Recursion, Structure, Pointer, File.	**05**

OR

Q.4	**(a)**	Write only syntax : if statement, if – else statement, for loop, while loop, do- while loop.	**05**
	(b)	Explain strlen(), strrev() and strcpy() string functions with suitable examples.	**05**
Q.5	**(a)**	Write a program to check given number is odd or even.	**05**
	(b)	Write a C program to display multiplication table.	**05**

OR

Q.5	**(a)**	Write a C program to copy the contents of one file into another.	**05**
	(b)	Write a C program to copy one string to another string using strcpy() function.	**05**

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