

GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC- SEMESTER-I EXAMINATION – SUMMER 2025

Subject Code:1110503

Date:26-05-2025

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) Explain any five operators with example.	05
(b) Explain structure of C program in detail.	05
Q.2 (a) Explain nested if statement with C example.	05
(b) Write a C program to find area of circle.	05
OR	
(b) Write a C program to print the following output.	05
1	
2 2	
3 3 3	
4 4 4 4	
Q.3 (a) What is array? Explain one dimensional array c program.	05
(b) Write C code to find the given number is odd or even.	05
OR	
Q.3 (a) Explain inner for loop and outer for loop with example.	05
(b) Write a C program to add two matrices.	05
Q.4 (a) Give the difference between call by value and call by reference.	05
(b) Define structure and explain how it differs from other data types.	05
OR	
Q.4 (a) What is string? How can we declare and initialize string variable?	05
(b) Give the difference between structure and union.	05
Q.5 (a) Explain various storage class in terms of scope, lifetime and visibility of a variable.	05
(b) What is pointer? How can you declare and initialize pointer variable?	05
OR	
Q.5 (a) Give the difference between actual argument and formal arguments in functions.	05
(b) What is File Management? List and explain different file operations or file opening modes?	05
