

GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC- SEMESTER-I EXAMINATION – WINTER 2024

Subject Code:1110503

Date:27-12-2024

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) What is variable? Explain rules to declare a variable.	05
	(b) List and explain operators used in C with examples.	05
Q.2	(a) Explain data types in C. List out basic data types with its size and range.	05
	(b) Explain break and continue with example.	05
	OR	
	(b) Explain Switch statement with example.	05
Q.3	(a) What is an array? Explain types of array with example.	05
	(b) Differentiate structure and union.	05
	OR	
Q.3	(a) What is Loop? Explain any one type of loop with syntax and example.	05
	(b) What is a function? Explain function prototype, function definition, and function call with example.	05
Q.4	(a) Explain any two built-in string functions with suitable example.	05
	(b) Explain If statement and If-else statement with syntax and example.	05
	OR	
Q.4	(a) Explain storage classes in C.	05
	(b) What is recursion? Write a c program to find factorial of given number using recursion.	05
Q.5	(a) Write a C program to print following output.	05
	1	
	0 1	
	1 0 1	
	0 1 0 1	
	(b) Write a C program to check whether the given number is positive, negative or zero.	05
	OR	
Q.5	(a) Write a C program to find largest element in an array.	05
	(b) Write a C program to copy the contents of one file into another.	05
