Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.VOC- SEMESTER– I EXAMINATION – WINTER 2023

Subject Code:1110503   **Date:30-12-2023**
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)	Write a short note on C program structure.	05
	(b)	What is variable? Explain rules to declare a variable.	05
Q.2	(a)	How many basic data types in C? List out basic data types with its size and range.	05
	(b)	What is Operator? List out all operators used in C and explain any two operator with examples.	05

OR

			Marks
	(b)	Explain dynamic initialization of variable with suitable example.	05
Q.3	(a)	How many types of decision making statements(Conditional Statements) used in C. and explain any one decision making statement in C.	05
	(b)	Write difference between entry control loop(while) and exit control loop(do while).	05

OR

			Marks
Q.3	(a)	Explain break and continue with example.	05
	(b)	What is recursion? Write a C program to find factorial of given number using recursion.	05
Q.4	(a)	Explain Switch statement with suitable example.	05
	(b)	Define : Token, Array, function, Structure, Pointer.	05

OR

			Marks
Q.4	(a)	Write only syntax : if statement, if – else statement, for loop, while loop, do-while loop.	05
	(b)	Explain any three built-in 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 find the largest number out of three numbers.	05

OR

			Marks
Q.5	(a)	Write a C program to copy the contents of one file into another.	05
	(b)	Write a C program to find length of string using strlen() function.	05

****

1