

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.VOC - SEMESTER- I EXAMINATION – WINTER 2019****Subject Code: 1110203****Date: 06/01/2020****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.

		Marks
<b>Q.1</b>	(a) Explain general format of C program.	<b>05</b>
	(b) State features of C language.	<b>05</b>
<b>Q.2</b>	(a) Explain any two operators used in C with suitable example.	<b>05</b>
	(b) State whether the following are valid C identifier or not with justification. 1. Last.name 2. &row 3. char 4. 123GTU 5. A\$	<b>05</b>
<b>OR</b>		
	(b) Write a C program to convert days into month and days.	<b>05</b>
<b>Q.3</b>	(a) Give the difference between Entry Controlled Loop and Exit Controlled Loop.	<b>05</b>
	(b) Write a C program to find smallest of the three numbers using else...if ladder.	<b>05</b>
<b>OR</b>		
<b>Q.3</b>	(a) Give the difference between if...else and switch statements.	<b>05</b>
	(b) Write a C program to print the following pattern. 1 2 3 4 5 6 7 8 9 10	<b>05</b>
<b>Q.4</b>	(a) What is array? How can you initialize two-dimension array? Explain with example.	<b>05</b>
	(b) Write a C program to find factorial of a given number using recursion.	<b>05</b>
<b>OR</b>		
<b>Q.4</b>	(a) Write a C program to check whether the given string is palindrome or not using built-in string functions.	<b>05</b>
	(b) Distinguish between actual arguments and formal arguments.	<b>05</b>
<b>Q.5</b>	(a) What is pointer? State benefits of pointer.	<b>05</b>
	(b) How malloc() and calloc() are differ from each other? Explain with example.	<b>05</b>
<b>OR</b>		
<b>Q.5</b>	(a) Explain various file opening modes in brief.	<b>05</b>
	(b) Describe with examples, the different ways of assigning values to structure members.	<b>05</b>

\*\*\*\*\*