www.FirstRanker.com

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-I &II (OLD) EXAMINATION - SUMMER-2019

Date: 10/06/2019

Subject Name: Computer Programming And Utilization

Time: 10:30 AM TO 01:00 PM	Total Marks: 70
----------------------------	-----------------

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Define (i) Compiler (ii) Interpreter (iii) Assembler. Explain the types of programming languages.	07
	(b)	Explain the structure a C program giving example.	07
Q.2	(a) (b)	Explain increment, decrement and size of operators in C with examples of each. What is nested if-else statement? Draw flowchart for a program to print maximum out of three numbers.	07 07
Q.3	(a)	Write a program and draw the flowchart for a program to print the following 4 3 2 1 3 2 1 2 1	07
	(b)	Explain switch-case statement giving example.	07

- 07 **Q.4** (a) Write a program to reverse a number. **(b)** Draw flowchart and write a program to find factorial of a given number. 07
- (a) Define an array. Explain declaration and initialization of two dimensional array **07** Q.5
 - with example. **(b)** Explain the following string handling functions: **07** (i) strlen() (ii) strcpy() (iii) strcat() (iv) strcmp() (v) puts() (vi) gets() (vii)putchar()
- (a) Explain recursive function with example. **Q.6 07**
 - (b) Explain scope and lifetime of a variable in detail. 07
- (a) Giving example explain Structure and Unions in C. 07 **Q.7 07**
 - **(b)** What is a File? Explain the entire file handling functions and mode of a File.
