

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –I EXAMINATION –SUMMER-2019

Subject Code:3610001**Date: 14-05-2019****Subject Name: Fundamentals of Programming-1****Time:02.30 pm to 5.00 pm****Total Marks: 70****Instructions:**

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

- Q.1 (a)** Answer the following question. **07**
- i. What is the use of getchar()?
 - ii. What is difference between i++ and ++i?
 - iii. What is Enumeration?
 - iv. Define : Recursion.
 - v. What is Constant?
 - vi. What is Argument?
 - vii. C Language consist _____ number of keyword.
- (b)** What do you mean by Operator? Explain any three different types of Operator with example. **07**
- Q.2 (a)** Explain the Switch statement with syntax and example. **07**
- (b)** What do you mean by data types? Explain different data types used in C Language in detail. **07**
- OR**
- (b)** Explain Continue and Break statement with example. **07**
- Q.3 (a)** Explain Basic structure of C programming. **07**
- (b)** Discuss different categories of Function with example in detail. **07**
- OR**
- Q.3 (a)** What is function? Describe various advantages of Function. **07**
- (b)** Describe types of Loop? Explain any one Looping statement in detail with example. **07**
- Q.4 (a)** Explain various storage classes of C Programming. **07**
- (b)** Write a C Program to find factorial of a given number using recursion. **07**
- OR**
- Q.4 (a)** Write a C program to read N numbers and sort them in ascending and descending order. **07**
- (b)** How a value is stored in Array? Describe various applications of Array in detail. **07**
- Q.5 (a)** Describe Two Dimensional Array with its syntax and example. **07**
- (b)** Write a program to count number of vowels in a given string. **07**
- OR**
- Q.5 (a)** Discuss String Handling Function available in C with example. **07**
- (b)** Write a C Program to read a string and determine whether the string is a palindrome or not. **07**
