Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated- SEMESTER-I • EXAMINATION – WINTER 2019

Subject Code: 2618603   **Date: 21/12/2019**
Subject Name: Fundamental of Programming-I
Time:10:30a.m. To 01:00p.m   **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)**	**Fill In The Blanks:**	**07**

        (1) _____ is used to terminate the string.
        (2) _____ is collection of similar data element.
        (3) Float Data Type variable occupies_____ byte of memory.
        (4) Total _____ keywords are available in C language.
        (5) C was developed by_____.
        (6) The_____ Statement is used to Skip statement in loop.
        (7) In C Programming language, the default return type of a function is_____.

      (b) **Do As Directed:**   **07**
        (1) What is Keyword?
        (2) What is the main difference between Entry & Exit control loop?
        (3) Differentiate Break and Continue.
        (4) What does a header file consist of?
        (5) What do you mean by Nested Loop?
        (6) Define Pseudo code.
        (7) What is the main difference between GO TO& BREAK?

Q.2	**(a)**	What is Data type ?Explain Different Data type of C language.	**07**
	(b)	What is Flowchart? Explain different standard symbols of it with examples.	**07**

OR

	(b)	Write a C program & draw flowcharts which interchange two numbers without using third variable.	**07**

Q.3	**(a)**	Explain decision control statements with all its types.	**07**
	(b)	List out type of operator in C and explain any two in detail.	**07**

OR

Q.3	**(a)**	What is a loop? Explain the working of a nested loop using a proper example.	**07**
	(b)	Explain the concept of type conversion and typecasting with respect to C programming language.	**07**

Q.4	**(a)**	What do you mean by a recursive function? Explain the working of a recursive function along with appropriate example.	**07**
	(b)	Explain String Manipulation function any 3in detail with example.	**07**

OR

Q.4	**(a)**	What is function recursion? Write a program of Fibonacci series using function recursion.	**07**
	(b)	Explain String Manipulation with Finding length of String, Copy String Function with ex.	**07**

Q.5	**(a)**	Explain four storage classes of C language.	**07**
	(b)	Write a Program to input 10 values From user in array and find its average.	**07**

OR

Q.5	**(a)**	Compare features of the keyword auto, static, register and extern available in c programming language.	**07**
	(b)	What is an Array? Explain it with declaration, initialization of 1D array. Explain Program of Transpose of Matrix.	**07**

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