

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER– I EXAMINATION – SUMMER - 2017

Subject Code: 4410603

Date: 03/06/2017

Subject Name: Fundamentals of Programming – I

Time: 10:30 AM to 1:00 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) Fill in the blanks. 07**
- (1) The execution of every C program starts from function.
 - (2) Total keywords are available in C language.
 - (3) and special characters are used for multiline comment in C.
 - (4) Float data type variable occupies bytes of memory.
 - (5) loop is known as exit control loop in C.
 - (6) storage class variable holds its previous value, if any function calls more than one time.
 - (7) Every string ends with character to terminate it.
- (b) Answer the following questions in short. 07**
- (1) Why C language is known as procedural language?
 - (2) Define term : Pseudocode
 - (3) What is Keyword?
 - (4) What is an Identifier? Give few examples of it.
 - (5) What is the main difference between Entry & Exit control loop?
 - (6) What is an Operator? List out different operators of it.
 - (7) What do you mean by nested loop?
- Q.2 (a) What is Flowchart? Explain different standard symbols of it with examples. 07**
- (b) What is Data Type? Explain different data types of C language. 07**
- OR**
- (b) Differentiate Algorithm & Flowchart in details. 07**
- Q.3 (a) Explain decision control statements with all its types. 07**
- (b) What do you mean by User defined Function? Explain function prototype, declaration and function body with proper example. 07**
- OR**
- Q.3 (a) Write detail short note on Recursion function with proper example. 07**
- (b) What is an Array ? Explain it with declaration, initialization of 1D array. 07**
- Explain example which takes input of 10 numbers and display only even number.
- Q.4 (a) What is String ? How to store string in C language? Explain a built in string function which combines two strings. 07**
- (b) Write detail short note on “break”, “continue” and “goto” statement with proper example. 07**
- OR**
- Q.4 (a) Explain four storage classes of C language. 07**
- (b) Explain two dimensional numerical arrays with 3 x 3 matrix multiplication example. 07**
- Q.5 (a) Explain any three string built in function with syntax , use and proper example. 07**

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

OR

- Q.5** (a) What do you mean by nested loop? Explain this concept using for loop with proper example. **07**
- (b) Write a C program & draw flowchart which take input of three different numbers and displays maximum number. **07**
