

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

Subject Code: 2618603**Date: 01-06-2019****Subject Name: Fundamental 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 _____ Statement is use to skip the statements in loop.
 2. _____ is graphical and symbolic representation of process.
 3. C was developed by _____
 4. Return type of function that does not have any return type is declared as _____.
 5. _____ data type has range -128 to +127.
 6. Function called itself is known as _____.
 7. _____ loop is called Entry Control Loop.
- (b) State true or false** **07**
1. Array is collection of mixed data type.
 2. Source program is a program written in machine language.
 3. A string “Hello World” can be read using scanf ().
 4. A compiler translate high level language program into very high level language.
 5. A function cannot return more than one value at a time.
 6. The do-while loop is a posttest loop.
 7. All arithmetic operators have same priority.
- Q.2 (a) Explain Basic data Types in C With Example.** **07**
- (b) (i) Explain machine level language** **03**
- (ii) What is variable? Provide rules for variable declaration.** **04**
- OR**
- (b) (i) Explain symbols of flow chart.** **03**
- (ii) Explain IF....Else Statement With Example.** **04**
- Q.3 (a) What is operator? List types of operator in C. Explain any two in detail.** **07**
- (b) List out various form of looping statement. Explain syntax and flowchart of Do.....While loop.** **07**
- OR**
- Q.3 (a) Explain conditional statement if...else if. Write a program to input number and check number is even or odd or zero.** **07**
- (b) Explain any two of following.** **07**
- (i) Break statement (ii) Continue statement (iii) Goto statement
- Q.4 (a) (i) Write difference between call by value and call by reference.** **04**
- (ii) Explain Use Of Local variable with Example. **03**
- (b) What function prototype, function definition and function call? Explain with example.** **07**

OR

- Q.4** (a) (i) What is recursive function? Write a program to calculate factorial of even Number using recursive function. **04**
(ii) Write Algorithm of a prime number . **03**
(b) Explain storage class in C. **07**
- Q.5** (a) Write a matrix Multiplication Program. **07**
(b) What is string? Explain any three Character function in C with syntax and example. **07**

OR

- Q.5** (a) Explain declaration and initialization of one dimension array. Write a program to input n elements in array and display largest element. **07**
(b) Write a program that display the following. **07**

1
12
123
1234
12345
