

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA Integrated – SEMESTER – I • EXAMINATION – SUMMER 2018****Subject Code: 4410603****Date: 24-May-2018****Subject Name: Fundamentals of Programming-1****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) _____ is step by step descriptive procedure for solving a particular problem.
 - 2) _____ Symbol is used to indicate condition in flowchart.
 - 3) _____ is form of structured English that describes algorithm.
 - 4) Extension of header file is _____
 - 5) _____ is default return data type of any UDF.
 - 6) _____ string manipulation function is used to concatenation two of string.
 - 7) _____ operator is used to calculate size of data type.
- (b) Explain flowchart with different symbols with example.** **07**
- Q.2 (a) Explain Generation of programming language.** **07**
- (b) What is switch statement? Explain it with example and write advantage of switch case statement.** **07**
- OR**
- (b) What is Array? Explain two dimensional arrays with example.** **07**
- Q.3 (a) Explain typecasting and type conversion with example.** **07**
- (b) Explain printf () function with its specifiers.** **07**
- OR**
- Q.3 (a) List and explain different types of operator available in C (Explain any Three).** **07**
- (b) What is need of function? Explain function declaration, definition and call with example.** **07**
- Q.4 (a) What is else if ladder and nested if statement? Explain it with example.** **07**
- (b) Explain While loop and For loop with example.** **07**
- OR**
- Q.4 (a) Explain break and continue with suitable example.** **07**
- (b) What is Recursive Function? Explain it using example of factorial number.** **07**
- Q.5 (a) List and explain different storage classes of variable available in C.** **07**
- (b) Explain Array of String with example.** **07**
- OR**
- Q.5 (a) Write a program to find out number is prime or not.** **07**
- (b) What are character manipulation functions in C? Explain any five with example.** **07**
