

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER- 1st EXAMINATION – WINTER 2018

Subject Code:110003**Date: 09/01/2019****Subject Name: Computer Programming and Utilization****Time:10:30 AM TO 1:00 PM****Total Marks: 70****Instructions:**

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

- Q.1** (a) Discuss the importance of stdio.h and conio.h header files. **07**
(b) What is flow chart? Explain various symbols used in flow chart. **07**
- Q.2** (a) What is array? Explain declaration and initialization of one dimensional, two dimensional and multi-dimensional arrays. **07**
(b) Explain different operators of C language. **07**
- Q.3** (a) Explain getch(), gets(), puts() . **07**
(b) What is recursion? Write a C program to add first 5 natural numbers using recursion. **07**
- Q.4** (a) What do you mean by pointer? How you can declare and initialize a pointer in C? **07**
(b) Write a C program for following output : **07**
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- Q.5** (a) Write a program for simple calculator using switch-case statement. **07**
(b) Explain nested if-else statement with example. **07**
- Q.6** (a) Explain structure. Write structure that named book which consists of three data fields, namely name, price and pages. How can we access structure variables? **07**
(b) Explain in detail Dynamic memory allocation with example. **07**
- Q.7** (a) List and explain File Management Functions of C. **07**
(b) Explain the following File Handling functions: (i) fseek() (ii) ftell() (iii) rewind() (iv) feof() (v) fputc() (vi) remove() (vii) fflush() **07**
