

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEMESTER 1st / 2nd (OLD) EXAMINATION WINTER 2016

Subject Code: 110003

Date: 27/01/2017

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.**

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|------------|--|-----------|
| Q.1 | (a) Draw and explain Block Diagram of computer. | 07 |
| | (b) Write an algorithm to calculate sum of n numbers. | 07 |
| Q.2 | (a) Draw a flowchart to find largest of 3 numbers. | 07 |
| | (b) Draw and explain flowchart showing execution of C program. | 07 |
| Q.3 | (a) What is function? Explain role of header file in C. How can we write our own function in C? | 07 |
| | (b) Define array. List various types of array. Also explain one dimensional array with the help of example. | 07 |
| Q.4 | (a) What is loop? How can we use loop in C program? Explain each types of Loop. | 07 |
| | (b) Explain if, if...else..., if...else... ladder and nested if...else in C. | 07 |
| Q.5 | (a) What is character array ends with '\0' called in C? List and Explain various operation /function available for character array. | 07 |
| | (b) Write a program to convert a string into upper case. | 07 |
| Q.6 | (a) Write a program to read a line from a text file and print it on your screen. | 07 |
| | (b) What is variable and constant in C? Explain them with the help of example. | 07 |
| Q.7 | (a) What is recursion? Write a recursive program to find factorial of a number. | 07 |
| | (b) What is use of Structure in C? Explain Structure with the help of example. | 07 |
