

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.

- 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**
