Sardar Vallabhbhai National Institute of Technology, Surat

Design and Analysis of Algorithms

Test

Exam Date: 27/10/2017 **Exam Time:** 2:00 PM to 2:30 PM **Total Marks:** 20

Instructions:

- 1. Write your roll no. and other necessary details clearly on Answer book and Question Paper.
- 2. Assume necessary data but give proper justification.
- 3. Be precise and clear in answering all questions.
- 4. Figure to the right indicate full marks of that question.
- 5. Please start answer to new question on new page.

Q-1 Answer the Following

[8]

- 1) Write Algorithm for sorting an array according to absolute difference with given value.
- 2) Write algorithm using iterative function to fine sum of n numbers.
- 3) Write an algorithm using Recursive function to fine sum of n numbers.
- 4) Define average step count.

Q-2 Answer the Following

[12]

- 1) What is the maximum and minimum problem?
- 2) Define internal path length.
- 3) What is the substitution method?
- 4) Write the Control abstraction for Divide-and conquer.

ALL THE BEST!

Page 1/1