

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 an algorithm using Recursive function to find sum of n numbers.
- 2) Give the two major phases of performance evaluation.
- 3) What is recursive algorithm?
- 4) Define Little theta

Q-2 Answer the Following

[12]

- 1) Define external path length?
- 2) Define internal path length.
- 3) Describe the recurrence relation of merge sort?
- 4) Write any three characteristics of Greedy Algorithm?

ALL THE BEST!