

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.
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Q-1 Answer the Following

[8]

- 1) Define the asymptotic notation Big Oh.
- 2) Define Little Omega.
- 3) Define the asymptotic notation Big Omega.
- 4) Define average step count.

Q-2 Answer the Following

[12]

- 1) Define optimal solution?
- 2) Write a algorithm for straightforward maximum and minimum
- 3) What is the binary search?
- 4) Write any three characteristics of Greedy Algorithm?

ALL THE BEST!