

Department of Computer Science and Engineering
Course: Design and Analysis of Algorithms

Shift-I

Assignment-Set-4

Max.Marks: 10

Last date of submission: 17-Sept -2019

Q.1] Read Text Justification problem from internet resource. Write a python code using dynamic programming to implement text justification problem. **Roll no 71**

Q.2] The images of building is capture and represented in a graph in the form of filled histogram. It is required to find out the dense area in city based on maximum area of region covered under the histogram. Write python code. **Roll no 74**

Q.3] Read Egg dropping problem and implement python code using dynamic programming. **Roll no 75**

Q.4] Read Knuth Morris Pratt String Matching Algorithm and write python code. Demonstrate any two applications in python code. **Roll no 76**

Q.5] Read Boyer Moore string matching algorithm and write python code. Demonstrate any two application in python code. **Roll no 77**

Q.6] Read Markel tree and implement the tree using python code. Demonstrate any two applications. **Roll no 78**

Q.7] The database is consisting of various fields. The numeric fields are to be encrypted using Hashing logic. Write python code and demonstrate the execution on data frame [use pandas] **Roll no 79**

Q.8] Implement tries using python and demonstrate application of tries in spell checking. **Roll no 80**

Q.9] Read 0/1 Knapsack problem and implement using python code. Demonstrate any two applications. **Roll no.5**

Q.10] Read Coin changing problem and implement using python code. Demonstrate any two applications. **Roll no 81**