

Data Structures and Algorithms

Summer-2020 Final-Semester

Faculty: Muhammad Adil Asst: Prof.

Total Marks: 50

- Attempt All Tasks.

Q#1. (a) Sort the given list using Insertion Sort. (10)

65, 70, 56, 51, 54, 66

Q#2. Construct Binary Trees from given list of numbers and then verify the tree. (10)

36, 26, 46, 28, 44, 47, 36, 24, 26, 51, 39, 53, 31

Q#3. Construct Binary Trees from given Mathematical Expressions

- $M - T / Y + (A / B)$ (10)
- $A * B + R ^ K$ (10)

Q#4. Apply Binary Tree Traversal Techniques on Binary Tree constructed in Q#3. (10)