



Sandip Foundation's
SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE

Department of Computer Engineering

Assignment No. 5: Trees

Answer the following questions

Que 1: Define following terms with reference to the tree: Binary search Tree, M-ary Tree, Tree Traversals

Que 2: Define following terms with reference to the tree: Rooted Tree, Optimal Binary Tree, Height of the tree, Depth, level, Eccentricity of vertex, cut points

Que 3: State and explain Huffman algorithm to find the optimal binary tree with suitable example.

Que 4: Find minimum spanning tree using Prim's algorithm with suitable example.

Que 5: Find maximal flow in the transport network using labelling procedure. Determine the corresponding minimum cut with suitable example.

Que 6: Find minimum spanning tree with suitable example using Kruskal's algorithm.

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