(b) How do you create Trees in HTML ? Give example. 18

Paper : II Data Structure

(Compulsory Question)

1. (a) Why binary search tree is better than binary tree ?
   (b) Differentiate between B-tree and m-way search tree.
   (c) What is the procedure for Heap Sort ?
   (d) Differentiate between path matrix and adjacency matrix.
   (e) Define various type of business files.
   (f) How deletion is performed in a binary search tree ?

UNIT–I

2. What is AVL search tree ? Explain rotations for insertion and deletion using suitable example.
3. (a) Write notes on :
   (i) Header nodes, (ii) General tree.
   (b) Generate a Huffman's tree for

Date :	A	B	C	D	E	F	G	H
Weight :	17	5	10	21	3	12	25	6

$9 \times 2 = 18$

UNIT–II

4. Explain the Dijkstra algorithm for shortest path in a graph with suitable example. 18
5. Explain in detail the Breadth First Search algorithm for traversing the graph with suitable example. 18

UNIT–III

6. (a) What are different kinds of sorting ? Explain Tournament sorting.
   (b) Compare various Searching algorithms. $9 \times 2 = 18$
7. Explain Merge sort algorithm with suitable example. 18

UNIT–IV

8. Write short notes on :
   (a) Hashing Algorithms, (b) File Operations. $9 \times 2 = 18$

UNIT–V

9. Describe various file organization techniques and their access mechanisms. 18