

UNIT - III

7. Write an algorithm for non recursive procedure of postorder tree traversal. 10
8. Write an algorithm to count the number of Reaf nodes in a binary tree. 10
9. Discuss height balanced binary tree. 10

UNIT - IV

10. Give a comparison of best, average and worst case time complexity of any four sorting algorithms. 10
11. Write an algorithm to list all the identifiers in a hash table in lexicographic order. Assume the hash function f is $f(x)$ = first character of X and Linear probing is used. 10
12. Explain various hash functions. 10

UNIT - V

13. Discuss various file organizations. 10
14. Explain indexing technique on files. 10
15. Explain Multi list files with example. 10

