TIME-3HOUR

MARKS-60

NOTE: SECTION A IS COMPULSORY. ATTEMPT ANY FOUR QUESTIONS FROM SECTION B AND TWO FROM SECTION C

SECTION A MARKS 2 EACH

Ql) a)What is Non -Linear Data structure?

b)What is Sorting and Merging?

c)Explain operations on Data Structures.

d)Write a short note on Linear search.

e)Explain about Binary tree.

f)Explain Representing the graph.

g)Explain Depth - First search.

h)Define Stack.

i)Write a short note on Bubble sort.

SECTION B MARKS 5 EACH

Q2) What is recursion? What are the Advantages of recursion? Write a procedure to implement. Quick sort using recursion?

Q3) Write a program for the Evolution of post fix expression.

Q4) What is tree? Explain the type of Branches of a tree.

Q5) What is hashing? Explain various Hashing Techniques.

Q6) Explain the concept of stack along with it's Applications

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SECTION C MARKS 10 EACH

Q7) What is linked list? Write an Algorithm to insist, delete and modify operations on Double linked list.

Q8) What is binary tree? Write a program to create a tree and display it in (a) in –order

(b) pre-order

(c) post-order.

Q9) Define Stack? How stacks are implemented using linked list?