

**CS 8391 Data Structures**  
**Important 2mark Questions**

**Unit I**

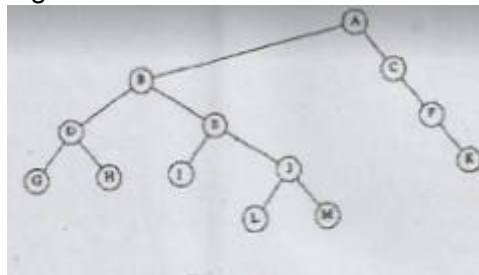
1. What are the advantages of Linked List over arrays?
2. State the advantage of ADT.
3. What are the disadvantage of linked list over array?

**Unit II**

1. What are the application of stacks?
2. What are priority queues? What are ways to implement priority queue?
3. Convert the following infix expression to postfix expression using stack  
 $a + b*c + (d + e + f)/g$ .

**Unit III**

1. For the tree in fig  
(a) List the siblings for node E.  
(b) Compute the height.



2. How to resolve null links in a binary tree?
3. The depth of complete binary tree is 8 and compute the number of nodes in leaf.

**Unit IV**

1. What are the representation of the graphs?
2. Define Euler circuits.
3. What is Bi-connectivity?

**Unit V**

1. State the complexity of binary search.
2. Compare linear search and Binary search.
3. What are the advantage and disadvantage of separate chaining and linear probing?