



- Q-5            Attempt all questions**
- (a) Explain DQueue with insert operation (5)  
 (b) Discuss Prim's algorithm (5)  
 (c) Define the terms: Root, Sibling, Node and Leaf (4)
- Q-6            Attempt all questions**
- (a) Discuss merge sort with algorithm (5)  
 (b) Explain depth first search with algorithm (5)  
 (c) Write a note on: queue (4)
- Q-7            Attempt all questions**
- (a) Explain binary search tree with suitable example (5)  
 (b) Describe efficiency of an algorithm (5)  
 (c) Write a note on: hash table (4)
- Q-8            Attempt all questions**
- (a) Write a java code for binary search (5)  
 (b) Write a note on: Recursion (5)  
 (c) Write a preorder and postorder traversal of the following tree (4)

