DATA STRUCTURE QUESTIONS

Ques 1.Write an algorithm to implement the HEAP sort technique and also compute the complexity of algorithm.

Ques 2.Define a queue. Also write code in C for ENQUEUE and DEQUEUE operation on QUEUE.

Ques 3. What do you underatand by dynamic memory management ? Create a circular linked list using dynamic memory and show its advantage over linear linked list.

Ques 4.What is circular linked list ? Describe its procedure for inserting and deleting nodes from a circular linked list with an example.

Ques 5.a.Give the algorithm for post order tree traversing. Justify with an example.

Ques5.b. What are threaded binary tree ? Explain with example.

Ques6.a.Write an algorithm for depth first traversal of a graph . Explain with example.

Ques6.b. Give the linked and matrix representations of a graph.

Ques 7 a. What are AVL tree ? Discuss the operations that can be performed on AVL tree. Illustrate with example.

Ques7.b. What are sets . What are list representations of sets. Illustrate their significance.

Ques 8.Explain the following in detail
   a) Skip List
   b) Indexed file Organization