

CSEIT124

Enrol No.

3rd Semester Mid - Term Examination

Data Structures using C

Time: 1 HR

Maximum Marks : 20

Attempt any 5 out of 6 questions.

Each Question carries 4 marks.

1. Write an algorithm for performing insertion in a circular queue.
2. Write an algorithm for tower of Hanoi using recursion.
3. Write an algorithm for binary search. What are the limitation with binary search? Calculate its complexity.
4. Convert the following from infix to postfix.
 - (a) $(A+B^D)/(E-F)+G$
 - (b) $A+(B*C-(D/E^F)*G)*H$
5. Write a short note on
 - (a) Operations in stack
 - (b) Priority Queue
6. Write a program to implement insertion sort in an array.