DATA STRUCTURE EASY WAY

7. What are the notations used in Evaluation of Arithmetic Expressions using prefix and postfix forms?

Polish and Reverse Polish notations.

8. Convert the expression $((A + B) * C - (D - E) \land (F + G))$ to equivalent Prefix and Postfix notations.

Prefix Notation:

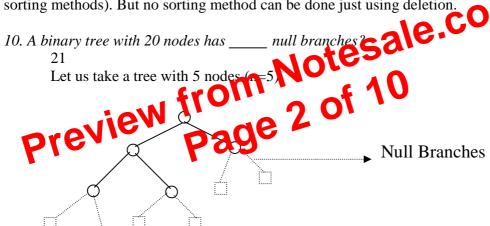
$$^-$$
 + +ABC - DE + FG

Postfix Notation:

$$AB + C * DE - - FG + ^$$

- 9. Sorting is not possible by using which of the following methods?
 - (a) Insertion
 - (b) Selection
 - (c) Exchange
 - (d) Deletion
 - (d) Deletion.

Using insertion we can perform insertion sort, using selection we can perform selection sort, using exchange we can perform the bubble sort (and other similar sorting methods). But no sorting method can be done just using deletion.



It will have only 6 (ie,5+1) null branches. In general,

A binary tree with n nodes has exactly n+1 null nodes.

- 11. What are the methods available in storing sequential files?
- > Straight merging,
- > Natural merging,
- > Polyphase sort,
- > Distribution of Initial runs.