

CBSE NET JUNE 2014 PAPER III

The reverse polish notation equivalent to the infix expression

$((A + B) * C + D) / (E + F + G)$  is

(A)  $A B + C * D + E F + G + /$

(B)  $A B + C D * + E F + G + /$

(C)  $A B + C * D + E F G + + /$

(D)  $A B + C * D + E + F G + /$

Ans:-A

Explanation:-

Always the expression given within parenthesis is converted first. Since there are 2 expressions with the parenthesis, I am going with the expression  $(E + F + G)$  first, the order does not matter.

In the expression  $(E + F + G)$ , there are 3 operands E,F and G and two operators, both being +. Since both the operators are the same, the expression is going to be evaluated from left to right. So  $E + F$  is considered first and converted into postfix form which is  $EF+$ . So, the expression becomes,

$((A + B) * C + D) / ([E F +] + G)$

Any expression converted into postfix form is going to be written in square brackets.

$((A + B) * C + D) / [E F + G +]$

. Here EF+ is one operand, G is another operand and + is the operator.

The next expression to be converted into postfix is ( A + B).

( [ A B + ] \* C + D ) / [ E F + G + ]

Now, the expression which is enclosed in parenthesis is evaluated and so, we get

( [ [ A B + ] C \* ] + D ) / [ E F + G + ]

[ A B + C \* D + ] / [ E F + G + ]

[ A B + C \* D + ] [ E F + G + ] /

Answer is, final postfix expression A B + C \* D + E F + G + /.

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