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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