

CBSE NET

Q. Convert the following infix expression into its equivalent post fix expression $(A + B^{\wedge} D) / (E - F) + G$

- (A) $ABD^{\wedge} + EF - / G +$
 (B) $ABD + ^{\wedge}EF - / G +$
 (C) $ABD + ^{\wedge}EF / - G +$
 (D) $ABD^{\wedge} + EF / - G +$

Ans: (A)

Explanation: See the solution below.

INFIX TO POSTFIX EXPRESSION $\Rightarrow$

Expression	Current symbol	stack	Output
$(A+B^{\wedge}D)/(E-F)+G$	—	—	—
$A+B^{\wedge}D)/(E-F)+G$	(	(	—
$+B^{\wedge}D)/(E-F)+G$	A	(	A
$B^{\wedge}D)/(E-F)+G$	+	(+	A
$^{\wedge}D)/(E-F)+G$	B	(+	AB
$D)/(E-F)+G$	^	(+ ^	AB
$)/(E-F)+G$	D	(+ ^	ABD
$/ (E-F) + G$	)	(+ ^	ABD^ +
$(E-F) + G$	/	/	ABD^ +
$E-F) + G$	(	/ (	ABD^ +
$-F) + G$	E	/ (	ABD^ + E
$F) + G$	-	/ (-	ABD^ + E
$) + G$	F	/ (-	ABD^ + EF
$+ G$	)	/ (-	ABD^ + EF - /
G	+	+	ABD^ + EF - /
$—$	G	—	ABD^ + EF - / G +

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