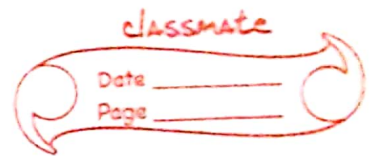# BODMAS Rule.

8) convert into Post fix manualy & using stack operation.

① $7 + 5 \times 3 - 9$

Soll^n:-

⊙ manual method :-

$7+5*3-9$

∴ $7+5 \underline{3*}-9$

∴ $7 \underline{53*}+-9$

∴ $753*+9-$

⊙ Stack method :-

$7 + 5 * 3 - 9$ ········ { scaning array }

• array ⟹ | 7 | 5 | 3 | * | + | 9 | — |

	+	=	pop + in stock
• Stack ⟹	* ≥ +	= True	= Push *
	- ≥ *	= false	= Pop *
—	- ≥ +	= False	= Pop +
*	—	=	empty the stack and push — into array
*			

② $7 * 8 + 9 - 3 * 2$

⊖

○ manual method :-

$7 * 8 + 9 - 3 * 2$ ··· { scaning array }

∴ $78 * + 9 - 3 * 2$

∴ $78 * + 9 - 32 *$

∴ $78 * 9 + - 32 *$

∴ $78 * 9 + 32 * -$ ⟹ post fix cxp

○ Using Stack :-

$7 * 8 + 9 - 3 * 2$ ··· { Scaning array }.
  ↑   ↑   ↑   ↑

array ⟹ | 7 | 8 | * | 9 | + | 3 | * | - |

stack ⟹

	$*$ = push to stack
	$+ \geq *$ = false = pop star & push +
	$- \geq +$ =false.= ~~left to Right opeation~~; push -
−	pop + & push -
$*$	$- \geq *$ = false = push $*$ into array.
$*$	$-$ = push $-$ into array to empty the stack.

③ 8 + 3 + 4 - 9

⊙ manul method :-

8 + 3 + 4 - 9

∴ 83 + + 4 - 9

∴ 83 + 4 + - 9

∴ 83 + 4 + 9 -

⊙ using Stack :-

8 + 3 + 4 - 9 ↑ ↑ ↑ ··· { scaning array }

• array ⟹ | 8 | 3 | + | 4 | + | 9 | - |

• Stack ⟹

+ = Push to stack.

+ ≥ + = True = Push + to array

- ≥ + = false = Pop + & push -

- = Pop from stack and push to array.

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④ $6 \wedge 2 + 5$

◎ manual method :-

$$6 \wedge 2 + 5$$

~~$36 \wedge + 5$~~

∴ $6\ 2 \wedge + 5$

∴ $6\ 2 \wedge 5 +$

◎ using stack.

     $6 \wedge 2 + 5$ --- { Scaning array }.

     ~~$6 \wedge 2 + 5$~~

• array ⇒ | 6 | 2 | ∧ | 5 | + | |

• Stack ⇒

	∧ = push to stack.
	+ ≥ ∧ = false = Pop ∧ & push +
	+ = Pop + form stack & put into array
+	
∧	