Infix to Postfex: Infix Expression: A* (B*C+ O*E)+F:

s.No	cyosent token	operator stack	postfix string
1.	A	åhfinity-	A
2.	₹.	₩	-A
3,		* (A
4.	В	*(AB
.5.	*	*(*	. AB .
6.		* (*	A BC
7.	4	*(+	ABC*
8.		.A. (+	ABOMD .
9.	*	*(+*	ABC*D
10.	E	* (+*	ABC*DE
11.)	*	ABCHDET
12.	+	A A	ABCOETTA
13.	F	+	ABC*DE*+*F
14.			ABC* OE*++F+

Postfix Expression is :- ABC*DE*+*F+

2) Infix Expression: A*B1c+D

5.NO	cuarent token	opexator stack	postfix string
1	- A		-0
2:	*	*	A
3	B	*	AB
Ú.	A	*A	AB
5	C	₩ +	ABC
6		+	ABC^*
7.	Ð	+	ABC*+D
8.		t	ABC^*D+

Postfix Expression: ABCMD+

3) postfix to infix:-

Postfix Expression: AB-DE + F*/

5.16	Reading of postfix	stack top	Expression
1.	A.	A	A
2.	B	В	BA
3.		-A-B	A-B
Ц.	D	D.	
5,		E	A-B
6.		D+E	A-B D+E A-B
7.		F	P O+E
8.	*	(1*(J+4))	A-B)
9.		(A-B)/(10+E**	(0+t)*F (A-B.)

Infix Expression: (A-B) / ((D+E)*F))

conversion: abc * de = /+

4) Postfix

5.NO	symbol	stack.
10	α	α
a.	ь ,	ab
3.	, C	abc
Чо	*	$a(b^{*}c)$
5.	d	9(b*c)d
6.	e	9 (b*c)de
7.	-	9(b/c)(J-e)
8.	/	9((btc)/(d-e))
9.		(a+((b*c)/(d-e)))

Infix conversion: (a+(cb*c)/(d-e)))

5) Balanced Symbol:-((a+p) * (c-q)) Expression SNO symbol Action Stack so fad Takeh 1 (Push'(' (2. ((Push'(' ((3.)((a Append'a' 0 4. ((((a+ Append't' 5. b ((Append b' · ((a+b 6. PDP1(1 1 (a+6 7. **(*** push'* ((a+b)* * 8. (*(push'(1 (atb) 9, Append'(1 (atbite (*(10 Append'_ ((atb)(c-(*(11, d (* C Append'd (ath) (c) 12. (* (1a+b)*(ca) pop'c' 13 PSP 'C' ((at6)) (cd) 九 is valid for 'Balanced symbol.'

6) i) [{(a+b)*c}-d]

Symbol	stack'	Action Exp taken	coessich so fad
general de construitor su su mais de construitor de construitor de construitor de construitor de construitor d		push'('	
α		Append'a	(a
+	[(,+]	push'+1	(9+
b	[(1+)	Append'b'	(atb
)	[c,+]	pop'('	(9+6)
*	[(,+,+]	push'*	(a+p)*
C	[(,)]	-Append'c'	(atb)*C
)	[Ú]	Pop'c'	(9tb)*C
_	[(,-],	push'-1	(9tb)*c
d	[c,-]	Append'd'	(9+b) c
End	ø	pop remoin -9 ng operators	(atb)*c-
	(a + b) * c) - d	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	([() push'(') a [() Append'a' + [(,+] push'+' b [(,+) Append'b'] [(,+) Pop'(' ** [(,+) Push'**' c [(,+) Push'**' - [(,-] Pop'c' - [(,-] Pop'c' - Append'd' End & pop semein

It is Valid for "Balanced symbol"