$Important\ terms\ related\ to\ minimization\ of\ Boolean\ expression + K\ Maps$

1)	Minterm	4)	Canonical form
2)	Maxterm	5)	SOP (Sum Of Product)
3)	Cardinal form	6)	POS (Product Of Sum)

Terms	Explanation
minterm	Product of all the literals with or without the bar
	within the expression . Example XY'Z'
Short hand minterm notation	Example: the short hand minterm designation of xy'z'
	Step 1 : substitute 0's for barred letters and 1's for non barred letters,
	xy'z'=100 ,(Binary equivalent)
	Step 2: Express decimal subscript of m
	$(lower case m) = m_4$
maxterm	Sum of all the literals with or without the bar
	within the expression. Example X'+Y+Z'
Short hand maxterm	Example: the short hand maxterm designation
notation	of $x+y'+z'$
	Step 1 : substitute 0's for non barred letters and
	1's for barred letters ,
	x+y'+z'=011 ,(Binary equivalent)
	Step 2: Express decimal subscript of M
C 1: 1 C	$(Upper case M) = M_3$
Cardinal form	$F(X,Y,Z) = \Sigma(0,1,2,5)$
C : 1 C	$F(W,X,Y,Z) = \pi (0,3,6,8,10,12,14)$
Canonical form	(X.Y.Z)+(X'.Y'.Z)OR
	(X+Y+Z') . (X'+Y+Z). (X'+Y"+Z')
	Boolean Expression composed entirely either of minterms or maxterms is referred to as
COD (Cum Of Droduct)	Canonical Expression When a healest avaragion is represented
,	When a boolean expression is represented purely as Sum Of Minterms , it is said to be in
Of Canonical SUP	Canonical Sum-Of-Products Form
	Example:(XYZ')+(XY'Z')+(X'YZ')
POS (Product Of Sum)	When a boolean expression is represented
,	purely as product of Maxterms , it is said to be
	in Canonical Product-Of-Sum Form
	Example: (X+Y+Z')(X+Y'+Z')(X'+Y+Z')
	minterm Short hand minterm notation maxterm