

$$1) F(A, B, C) = (A + C') + C(C \cdot A' + (B \cdot A) + C)$$

$$f_1 = (A + C') + C \cdot C \cdot A' + C \cdot B \cdot A + C \cdot C$$

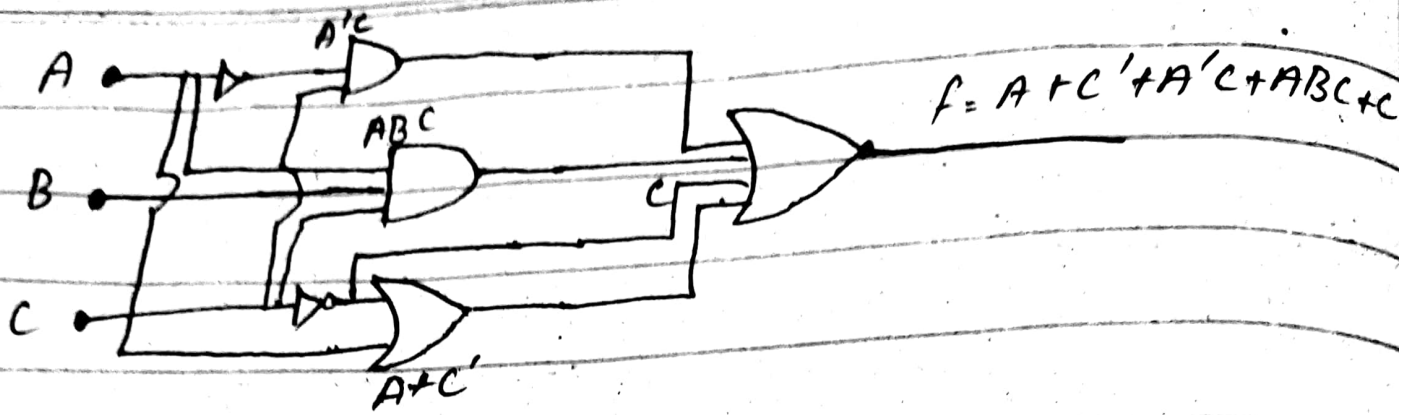
$$= A + C' + A'C + ABC + C$$

$$= A + A'C + ABC + C + C'$$

$$= A + A'C + ABC + 1$$

$$f_2 = 1$$

A	B	C	f_1	f_2
0	0	0	1	1
0	0	1	1	1
0	1	0	1	1
0	1	1	1	1
1	0	0	1	1
1	0	1	1	1
1	1	0	1	1
1	1	1	1	1



2) $f(A, B, C, D) = A'C'D' + A'B'C'D + A'B'C + ABCD$
 $A C'$

$\Sigma(0, 1, 2, 3, 4, 8, 9, 12, 13, 15)$

	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$	1	1	1	1
$\bar{A}B$	1			
AB	1	1	1	
$A\bar{B}$	1	1		

$f_2 = A'B' + C'D' + AC' + ABD$
 $= \Sigma(0, 1, 2, 3, 4, 8, 9, 12, 13, 15)$

A	B	C	D	δ_1	δ_2
0	0	0	0	1	1
0	0	0	1	1	1
0	0	1	0	1	1
0	0	1	1	1	1
0	1	0	0	1	1
0	1	0	1	0	0
0	1	1	0	0	0
0	1	1	1	0	0
1	0	0	0	1	1
1	0	0	1	0	1
1	0	1	0	0	0
1	0	1	1	0	0
1	1	0	0	1	1
1	1	0	1	1	1
1	1	1	0	0	0
1	1	1	1	1	1

