U19CS012 DELD Ass-12

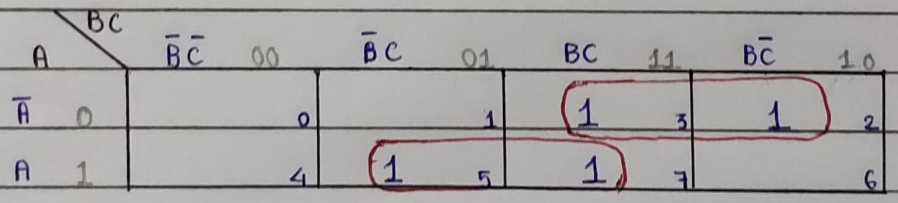
Q.1.) Theoratical Calculation

⊕ XOR

A	B	C	01		02		f = 01 ⊕ 02
0	0	0	0	C	0	C	0
0	0	1	1		1		0
0	1	0	1	C'	0	C	1
0	1	1	0		1		1
1	0	0	0	0	0	C	0
1	0	1	0		1		1
1	1	0	1	1	1	C'	0
1	1	1	1		0		1

Result ⇑

$F(A,B,C) = \sum m(2,3,5,7)$



$f = \bar{A}B + AC$ (Minimized Expression using k-map)

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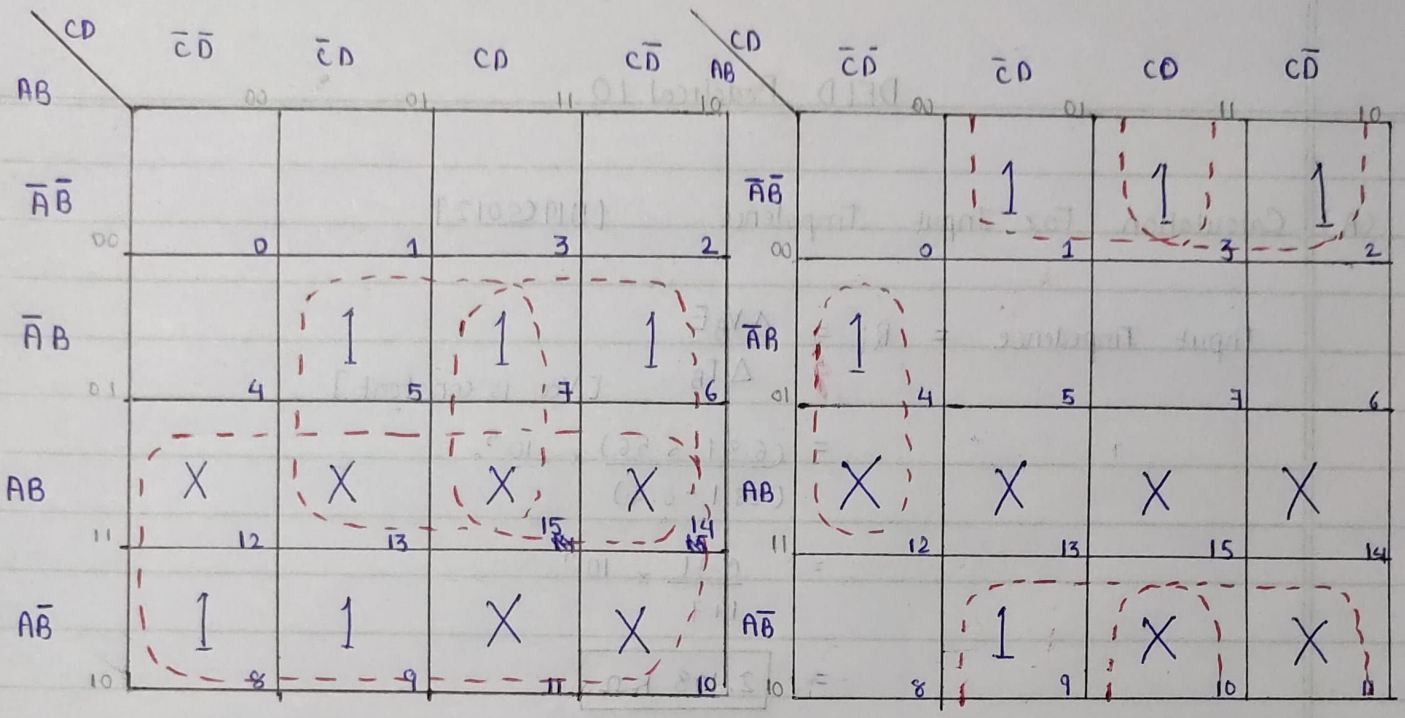
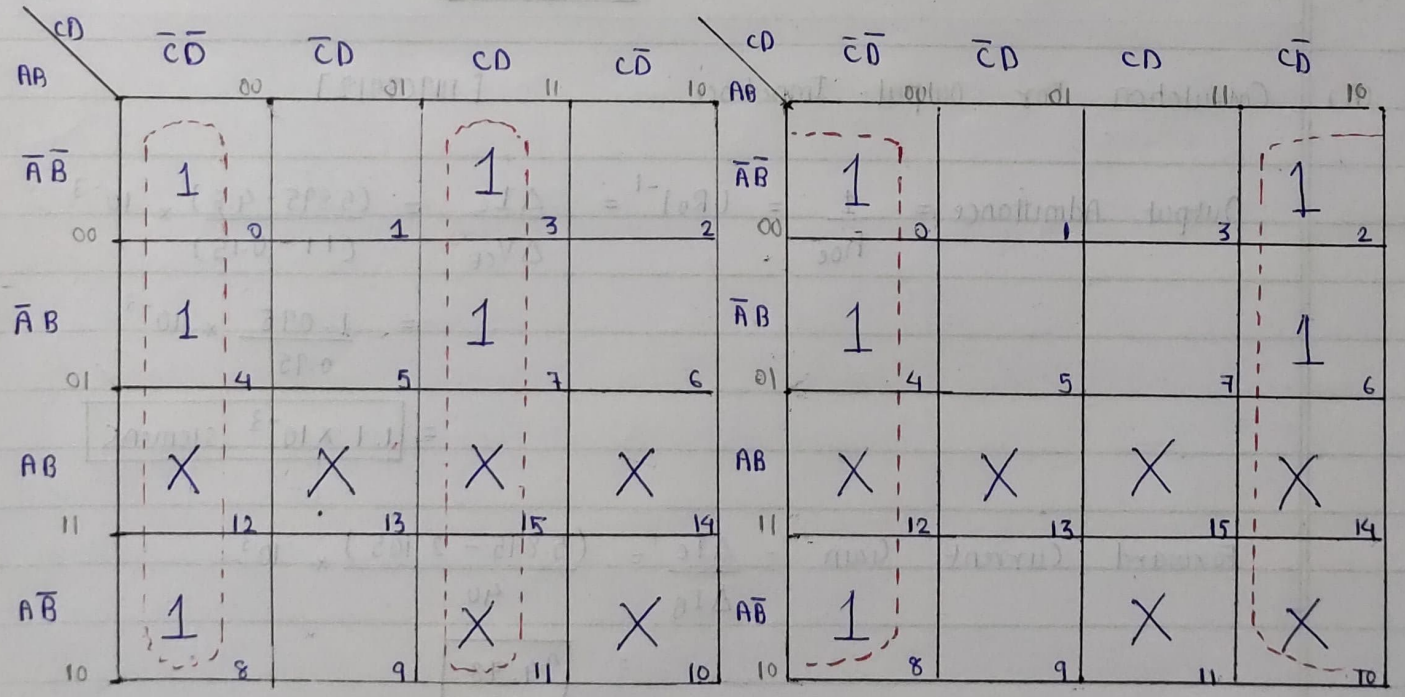


$W = A + BC + BD$

$X = B\bar{C}\bar{D} + \bar{B}D + \bar{B}C$



$y = \bar{C}\bar{D} + CD$

$z = \bar{D}$