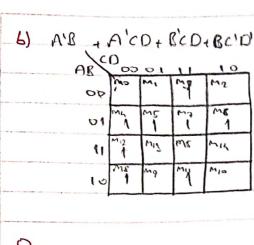
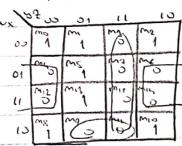
Q1. a) f(w,x,y,2) = 5(1,4,	5, 6, 7, 12)	
11 wis wid with who	f= w'x + w'y'2 + xy'2	
6) F(w. 1, 2, 1) = 5(0,1	,5,7,9)	
11 Wis with will win	F= x'5' + 5'\cu'	
Q2.	01 ms ms ms ms ms 1 ms 1 ms 1 ms 1 ms 1	
F= mo+ m, + mp+m F= & (0,1,2,3,11,1	2,14,15)	



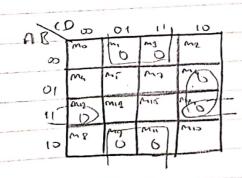
F = 5 (3,4,5,6,7,8,11,12)

Qs.
a) F(w,x,3,2) = E(011,2,5,2,12,12) = T(3,4,6,7,9,11,12,15,15)



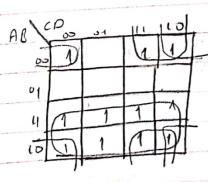
F= (3'+2') (w'+x+21).(y1+2)

b) F(A,B,C,D) = T(1,1,6,9,11,12,14)



F'= 8'D + BCO' + MED' F= (8+P'). (B'+C'+O). (A'+B+D)

Q4.
a) [(A,B,c,D) = A'B'C + AC' + ACD + ACD' + A'B'D'



F-A+B'C+B'D'

Since we need to use NAND

sate take two times complement

F = ((A . B'C + B'D')') = (A'. (B'C)'. (B'D')')

