

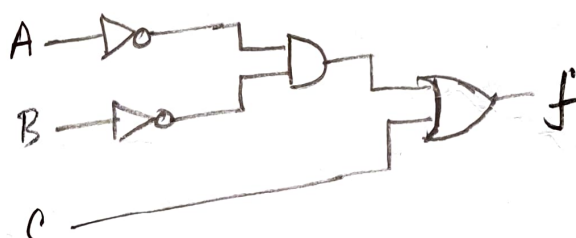
Q. 1.

I

A \ B C	00	01	11	10
0	1	1	1	
1		1	1	

$$f(A, B, C) = C + \bar{A}\bar{B}$$

(II)

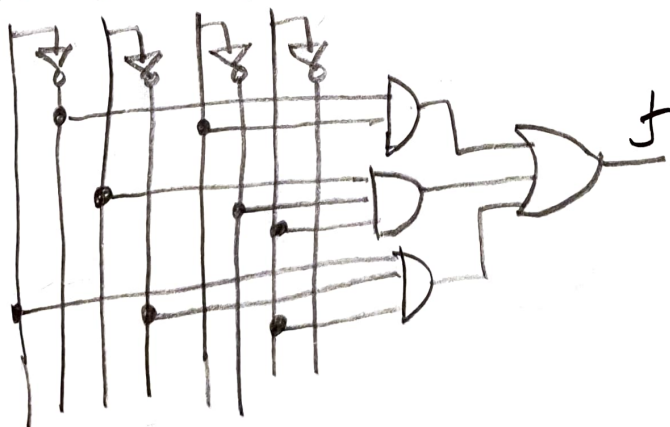


Q. 2.

A \ B C D	00	01	11	10
00			1	1
01		1	1	1
11		1		
10		1	1	

$$f(A, B, C, D) = \bar{A}\bar{C} + B\bar{C}D + A\bar{B}D$$

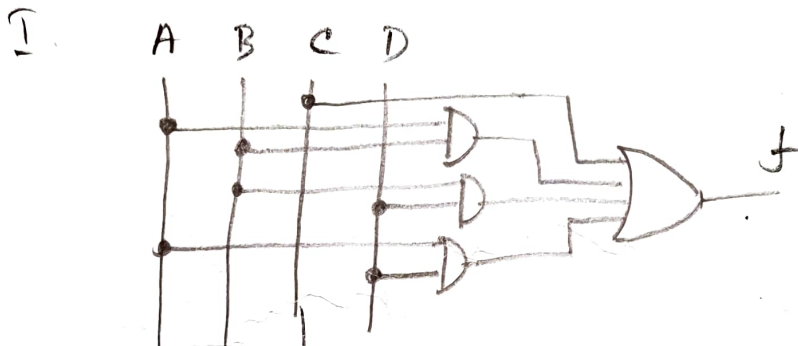
A B C D



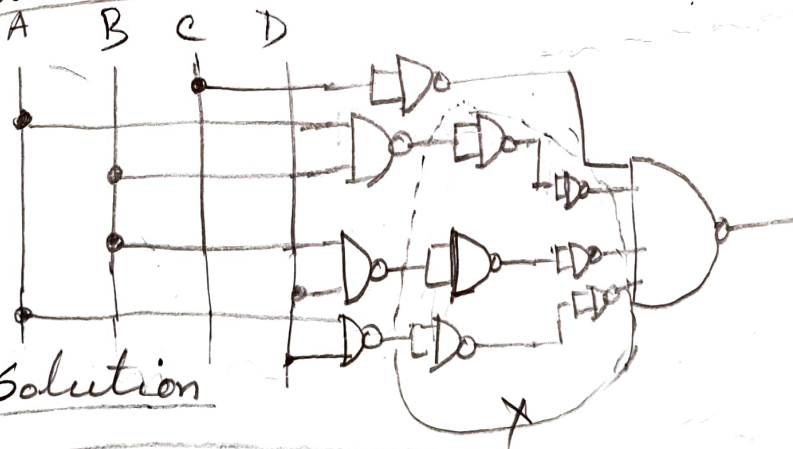
Q3.

AB \ CD	00	01	11	10
00			X	1
01		1	X	1
11	1	1	X	1
10		1	X	1

$$f = C + AB + BD + AD$$



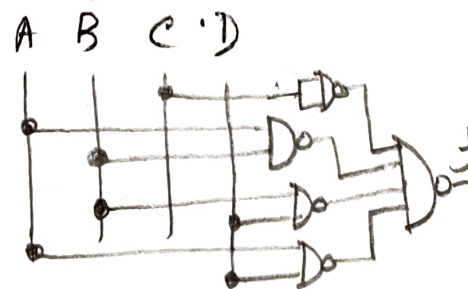
II. 1st solution



2nd solution

$$f = (C + AB + BD + AD)$$

$$= (C' \cdot (AB)' \cdot (BD)' \cdot (AD)')'$$



III.

