

امتحان نهائي

Year:

Month:

Date:

Subject:

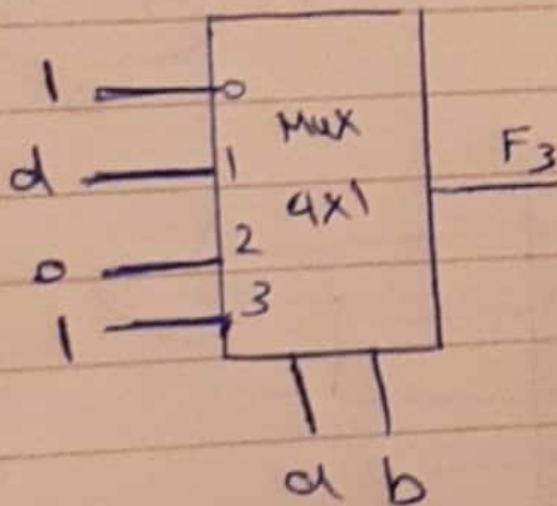
not, mux
4x1

①

$F_3 =$

ab \ cd	00	01	11	10
00	1 ₀	1 ₁	1 ₂	1 ₃
01	0 ₄	X ₅	1 ₆	0 ₇
11	1 ₈	1 ₉	1 ₁₀	1 ₁₁
10	0 ₁₂	X ₁₃	0 ₁₄	0 ₁₅

+10



ab	
00	1
01	d
10	0
11	1

9V K Y 191

عبدالله

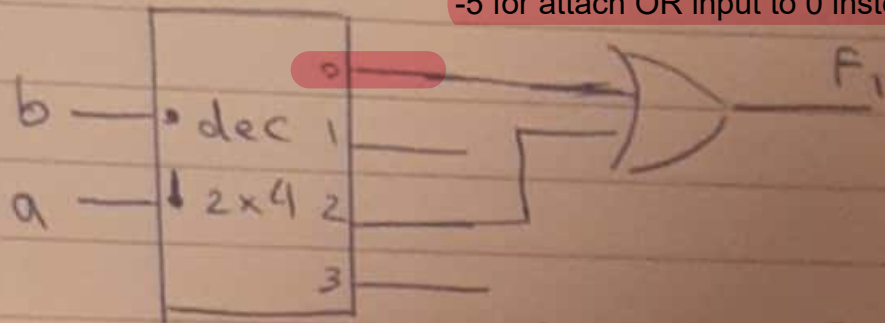
$$F_1 = \bar{a}b + a\bar{b} = a \oplus b$$

	a	b
①	0	1
②	1	0

+2

ab \ cd	00	01	11	10
00	0	1	3	2
01	1	X	7	6
11	12	13	15	14
10	1	X	11	1

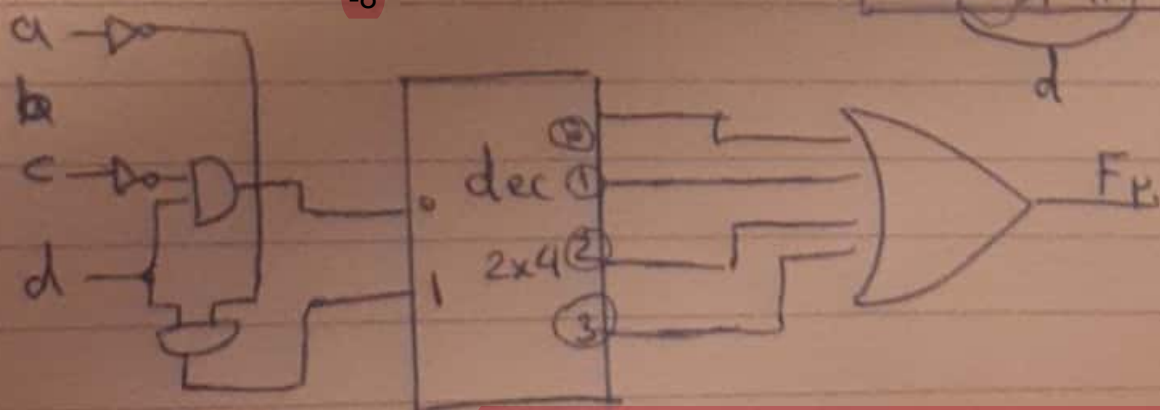
-5 for attach OR input to 0 instead of 1



$$F_2 = \bar{c}d + \bar{a}d$$

ab \ cd	00	01	11	10
00	0	1	1	2
01	4	X	7	6
11	12	13	15	14
10	8	X	11	1

-8



NOTE: for correct response you should disconnect 0 output of DEC which is connected to OR