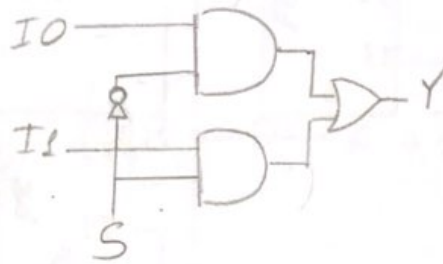


Guia 7 'Parte I

1

S	I0	I1	Y
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

$$Y = (\bar{S} + I0) + (S + I1)$$

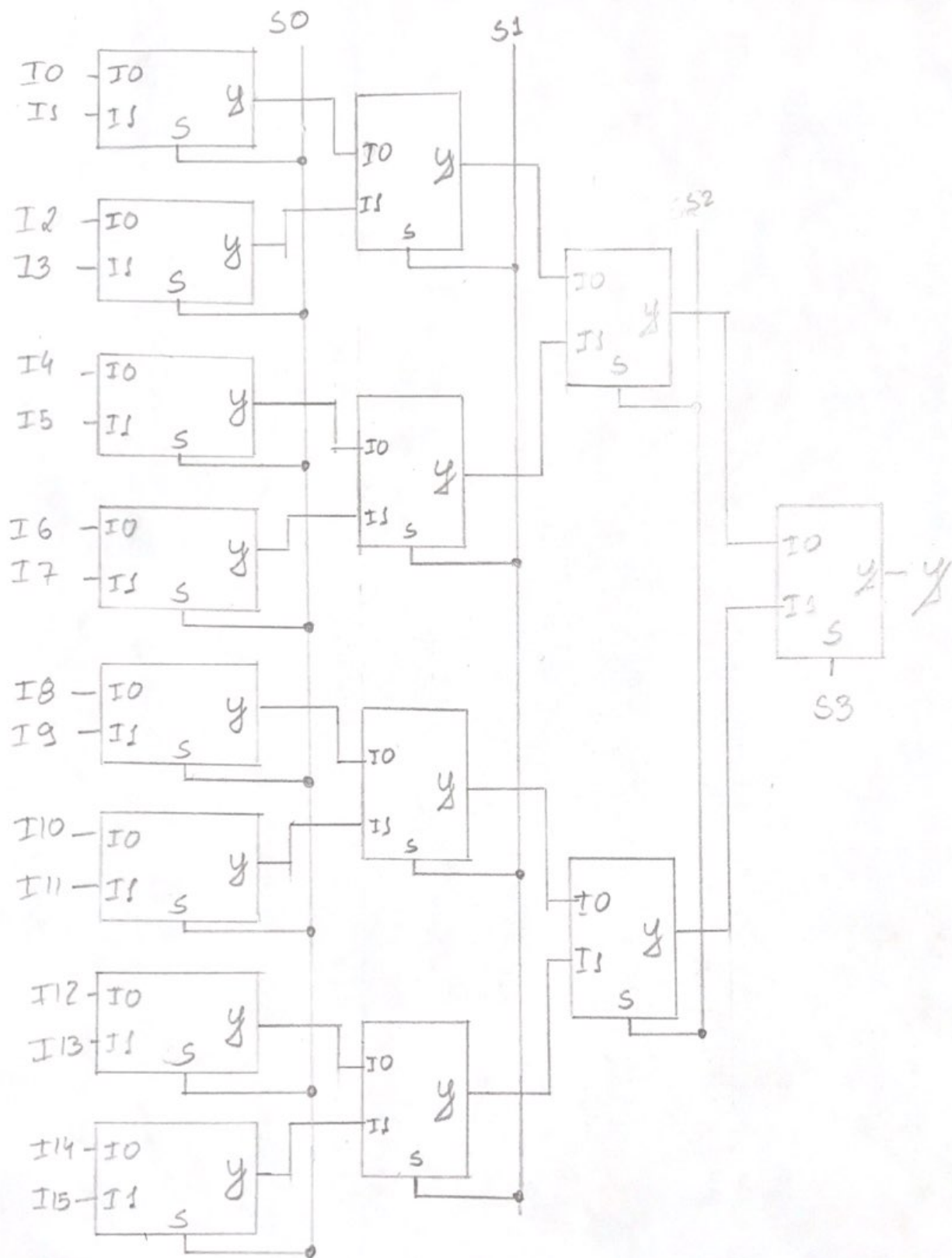


S	Y
0	I0
1	I1

5

S3	S2	S1	S0	Y
0	0	0	0	I0
0	0	0	1	I1
0	0	1	0	I2
0	0	1	1	I3
0	1	0	0	I4
0	1	0	1	I5
0	1	1	0	I6
0	1	1	1	I7
1	0	0	0	I8
1	0	0	1	I9
1	0	1	0	I10
1	0	1	1	I11
1	1	0	0	I12
1	1	0	1	I13
1	1	1	0	I14
1	1	1	1	I15

$2^4 = 16$, 0 sinal S vai ter 4 bits



Parte II

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

1)

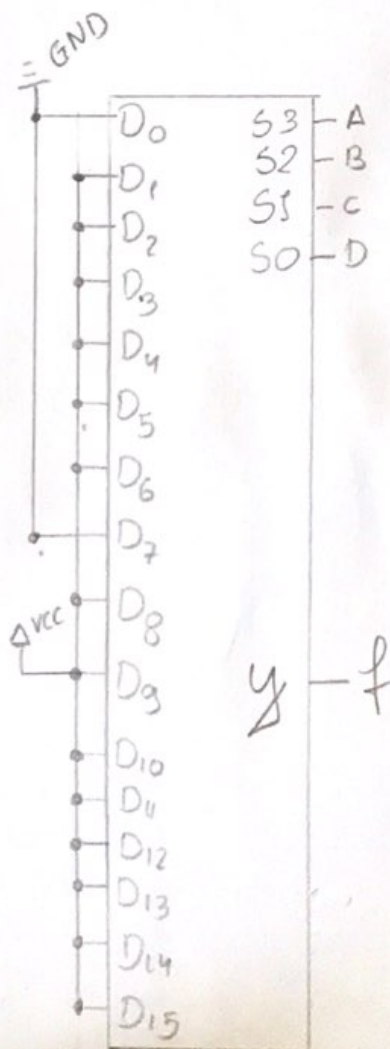
AB \ CD		A			
		00	01	11	10
C \ D	00	0	1 ₁	1 ₃	1 ₂
	01	1 ₄	1 ₅	1 ₇	1 ₆
	11	1 ₁₂		1 ₁₅	1 ₁₄
	10	1 ₈	1 ₉	1 ₁₁	1 ₁₀

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

B

2)

$$f(A, B, C, D) = \sum_m (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15)$$



A	B	C	D	f
0	0	0	0	0
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	0
1	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