

Lista 04

1 a)

		BC			
		00	01	11	10
A	0	1	1	1	1
	1	0	1	1	1

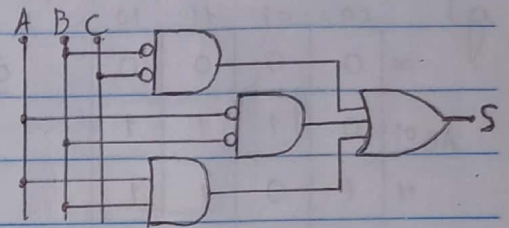
$$S = \bar{A} + B + C$$



b)

		BC			
		00	01	11	10
A	0	1	1	0	0
	1	1	0	1	1

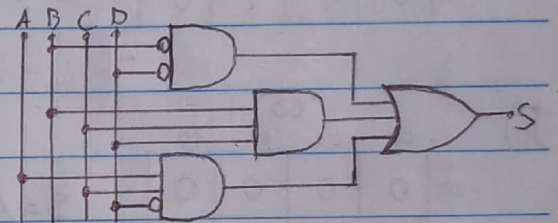
$$S = \bar{B}\bar{C} + \bar{A}\bar{B} + AB$$



c)

		CD			
		00	01	11	10
AB	00	1	0	0	1
	01	0	0	1	0
	11	0	0	1	1
	10	1	0	0	1

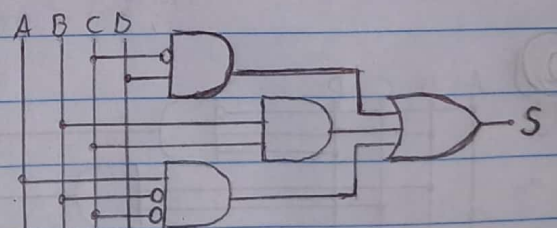
$$S = \bar{B}\bar{D} + BCD + AC\bar{D}$$



d)

		CD			
		00	01	11	10
AB	00	0	1	0	0
	01	0	1	1	1
	11	0	1	1	1
	10	1	1	0	0

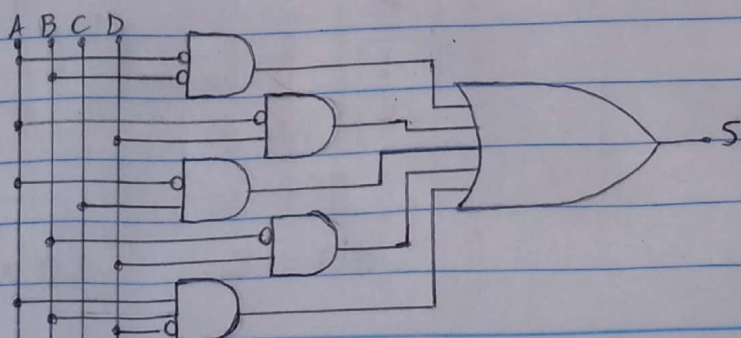
$$S = \bar{C}\bar{D} + BC + A\bar{B}\bar{C}$$



e)

		CD			
		00	01	11	10
AB	00	1	1	1	1
	01	0	1	1	1
	11	1	0	0	1
	10	0	1	1	0

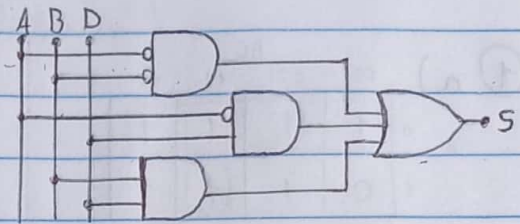
$$S = \bar{A}\bar{B} + \bar{A}\bar{D} + \bar{A}\bar{C} + \bar{B}\bar{D} + AB\bar{D}$$



1)

	CD			
	00	01	11	10
AB 00	1	1	1	0
AB 01	1	1	1	0
AB 11	1	1	1	0
AB 10	1	0	0	0

$$S = \bar{A}\bar{B} + \bar{A}D + BD$$



g)

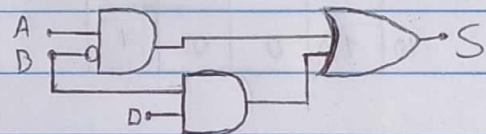
	CD			
	00	01	11	10
AB 00	0	0	0	0
AB 01	0	1	1	1
AB 11	1	0	1	1
AB 10	0	1	1	0

$$S = \bar{A}BD + BC + AB\bar{D} + \bar{A}BD$$

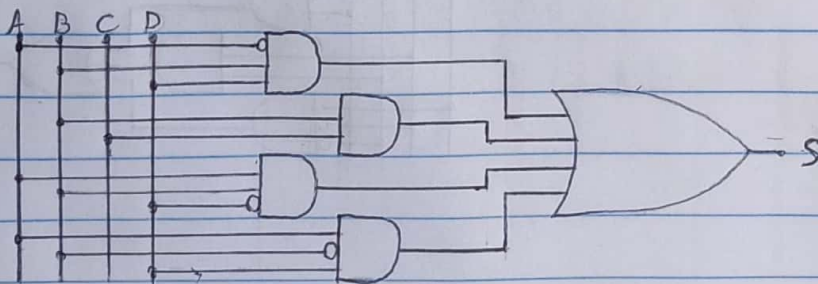
h)

	CD			
	00	01	11	10
AB 00	0	0	0	0
AB 01	0	1	1	0
AB 11	0	1	1	0
AB 10	1	1	1	1

$$S = A\bar{B} + BD$$



g)



②

A₁ A₂ B₁ B₂ S₁ S₂ S₃ S₄

0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0
0	0	1	0	0	0	0	0
0	0	1	1	0	0	0	0
0	1	0	0	0	0	0	0
0	1	0	1	0	0	0	1
0	1	1	0	0	0	1	0
0	1	1	1	0	0	1	1
1	0	0	0	0	0	0	0
1	0	0	1	0	0	1	0
1	0	1	0	0	1	0	0
1	0	1	1	0	1	1	0
1	1	0	0	0	0	0	0
1	1	0	1	0	0	1	1
1	1	1	0	0	1	1	0
1	1	1	1	1	0	0	1

	00	01	11	10
00	0	0	0	0
01	0	0	0	0
11	0	0	1	0
10	0	0	0	0

	00	01	11	10
00	0	0	0	0
01	0	0	0	0
11	0	0	0	1
10	0	0	1	1

$$S_1 = ABCD$$

$$S_2 = A\bar{B}C + A\bar{C}D$$

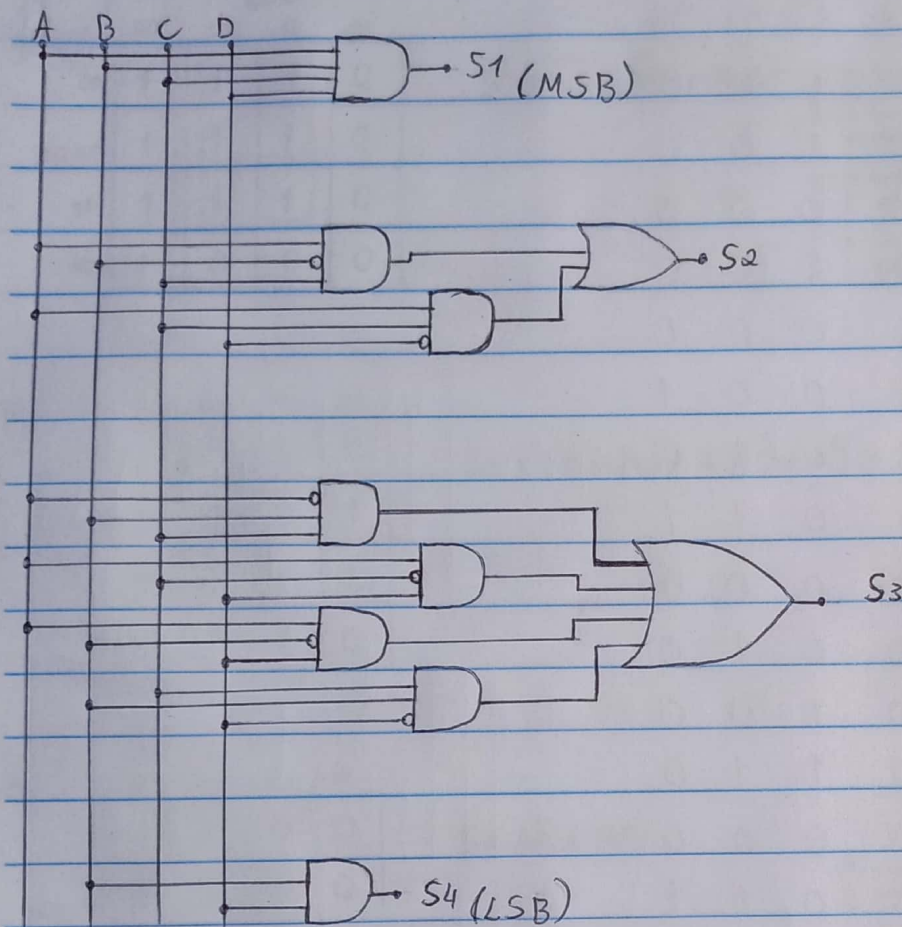
	00	01	11	10
00	0	0	0	0
01	0	0	1	1
11	0	1	0	1
10	0	1	1	0

	00	01	11	10
00	0	0	0	0
01	0	1	1	0
11	0	1	1	0
10	0	0	0	0

$$S_3 = \bar{A}BC + A\bar{C}D + A\bar{B}D + B\bar{C}D$$

$$S_4 = BD$$

2



3

A = 0					A = 1				
	00	01	11	10		00	01	11	10
BC 00	0	0	0	0	BC 00	0	1	1	0
BC 01	1	1	1	1	BC 01	1	1	1	1
BC 11	0	1	1	0	BC 11	0	0	0	0
BC 10	0	0	0	0	BC 10	0	0	0	0

$$S = \bar{B}C + \bar{A}CE + A\bar{D}E$$

