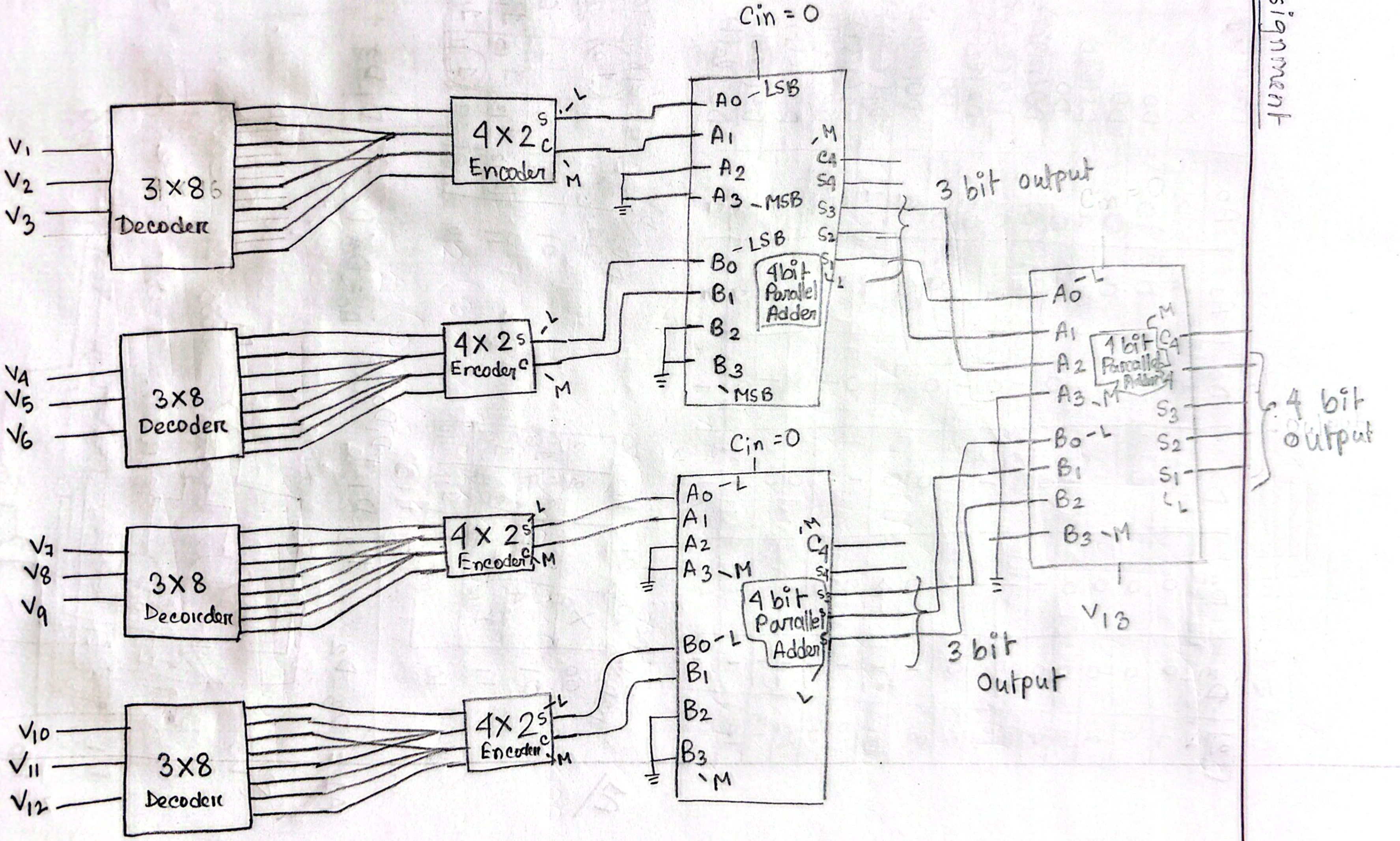
1.

Assignment



2.

	D_3	D_2	D_1	D_0	A_1	A_0	Priority
0	0	0	0	0	X	X	X
1	0	0	0	1	0	0	D0
2	0	0	1	0	0	0	D0
3	0	0	1	1	0	1	D1 (left)
4	0	1	0	0	0	0	D0
5	0	1	0	1	0	0	D0 (right)
6	0	1	1	0	1	0	D2 (left)
7	0	1	1	1	1	0	D2 (left)
8	1	0	0	0	0	0	D0
9	1	0	0	1	0	0	D0 (right)
10	1	0	1	0	0	1	D1 (right)
11	1	0	1	1	1	1	D1 (left)
12	1	1	0	0	1	1	D3 (left)
13	1	1	0	1	1	1	D3 (left)
14	1	1	1	0	1	1	D3 (left)
15	1	1	1	1	1	1	D3 (left)

A1

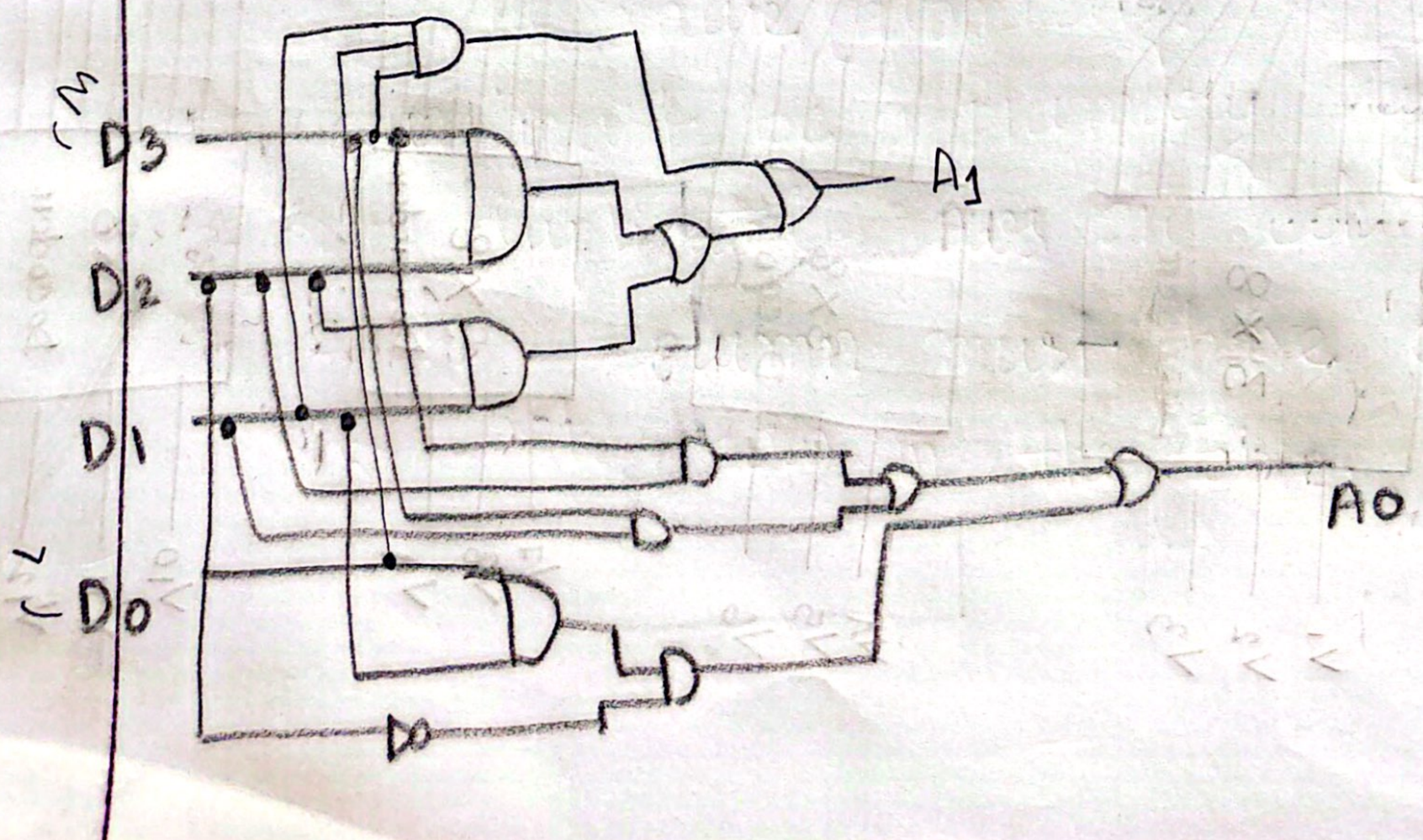
D_3D_2 \ D_1D_0	00	01	11	10
00	X 0	1	3	2
01	4	5	1 7	1 6
11	1 12	1 13	1 15	1 14
10	8	9	1 11	10

$A_1 = D_3D_2 + D_2D_1 + D_1D_0D_3$

A_0

D_3D_2 \ D_1D_0	00	01	11	10
00	X 0	1	1 3	2
01	4	5	7	6
11	1 12	1 13	1 15	1 14
10	8	9	1 11	1 10

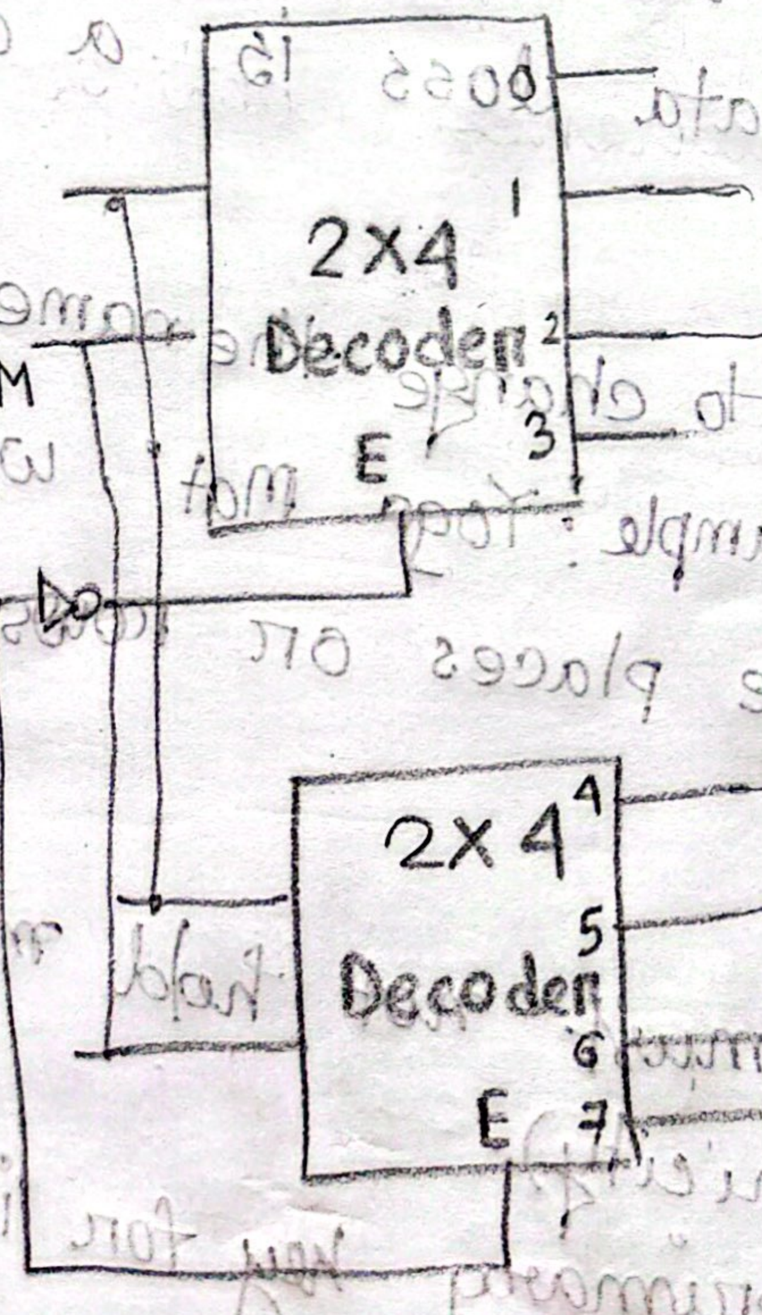
$A_0 = D_3D_2 + D_1D_3 + D_1D_0D_2'$



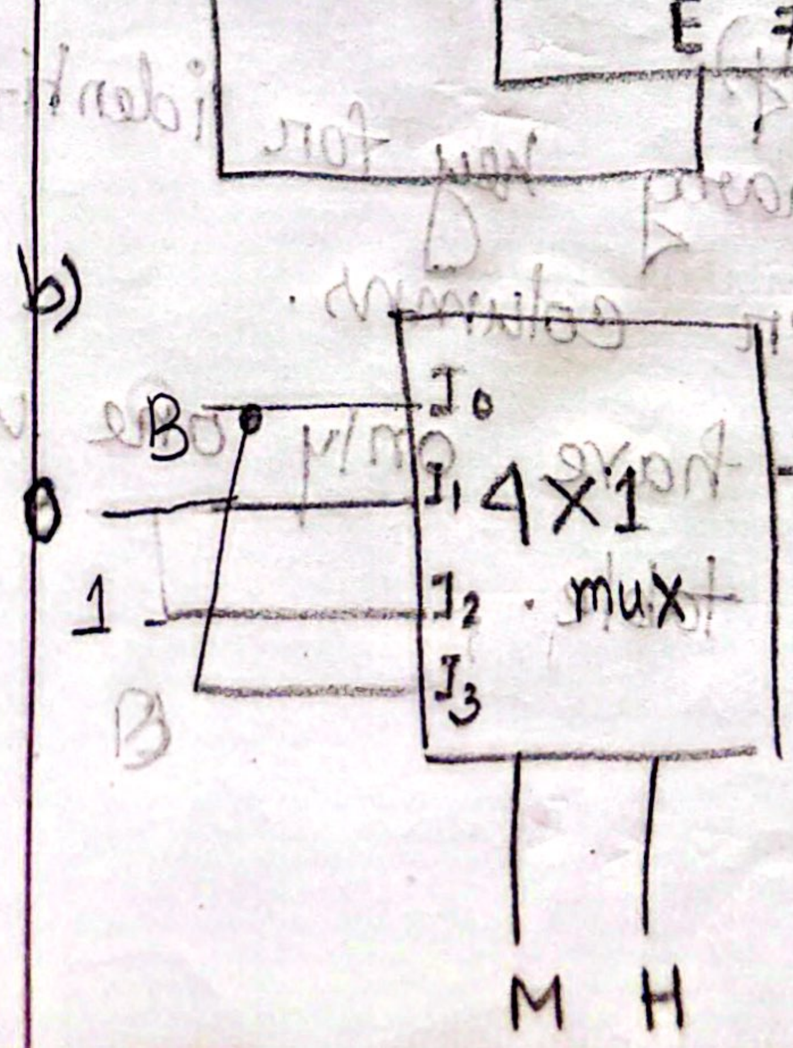
3.

	B	M	H	Hunter
0	0	0	0	0
1	0	0	1	0
2	0	1	0	1
3	0	1	1	0
4	1	0	0	1
5	1	0	1	0
6	1	1	0	0
7	1	1	1	0

a)



b)



	I_0	I_1	I_2	I_3
B'	0	1	(2)	(3)
B	(4)	5	(6)	(7)

B 0 1 B