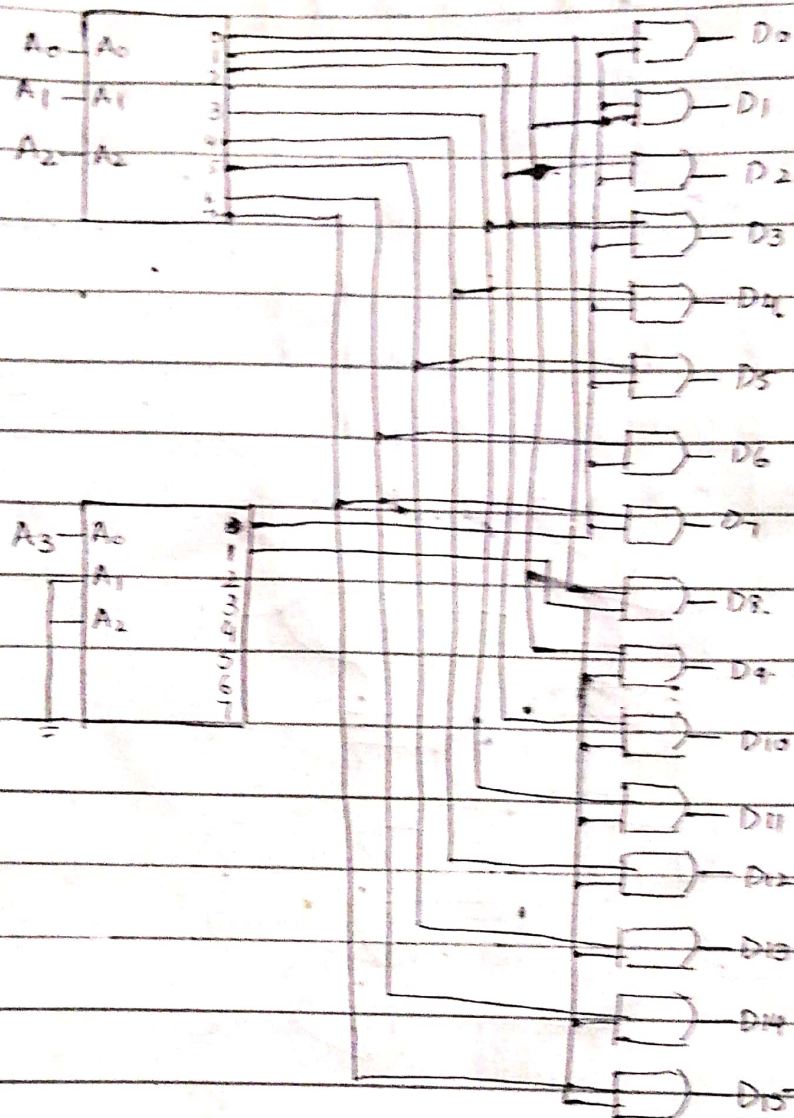


Name: Muhammad LaraiB Akhtar

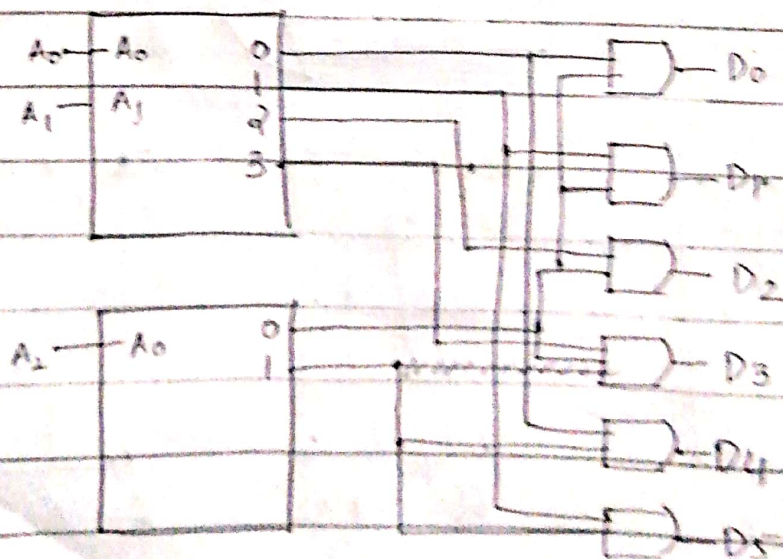
BCS-2B

2115294

3.28

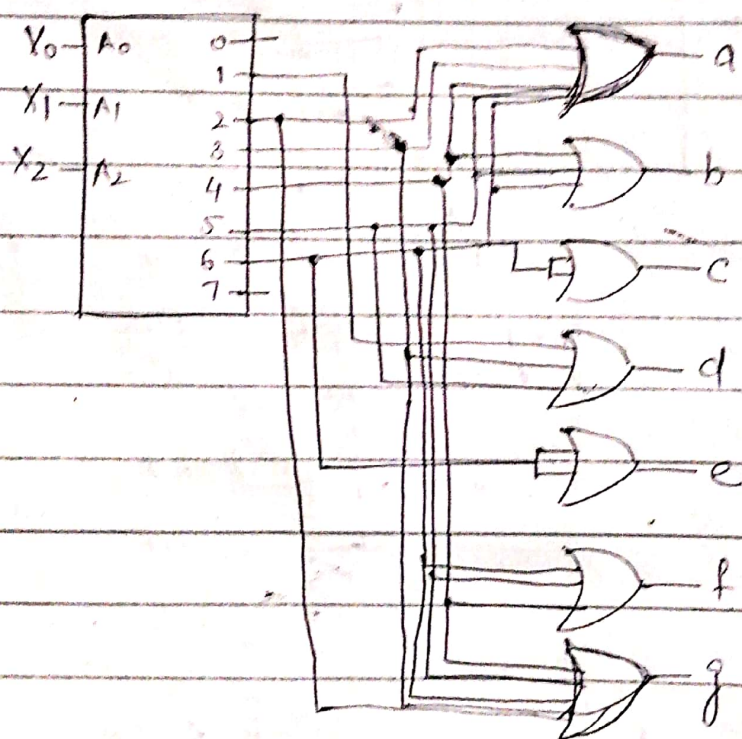


3.31



3.32  $X_2 \ X_1 \ X_0 \ a \ b \ c \ d \ e \ f \ g$

0	0	0	d	d	d	d	d	d
0	0	1	0	0	0	1	0	0
0	1	0	1	0	0	0	0	1
0	1	1	1	0	0	1	0	0
1	0	0	1	1	0	0	0	1
1	0	1	1	1	0	1	0	1
1	1	0	1	1	1	0	1	1
1	1	1	d	d	d	d	d	d



$X_2 \ X_1$	$X_0$	0	1
00		d	1
01			1
11			d
10			1

$$d = X_0$$

$X_2 \ X_1$	$X_0$	0	1
00		d	
01		1	1
11		1	d
10		1	1

$$b = X_1 \oplus X_2$$

$X_2 \ X_1$	$X_0$	0	1
00		d	
01			
11		1	d
10			

$$c = X_1 X_2$$



$x_2 \backslash x_1$	0	1
00	d	
01		
11	1	d
10	1	1

$$b = x_2$$

$x_2 \backslash x_1$	0	1
00	d	
01		
11	1	d
10		

$$e = x_1 x_2$$

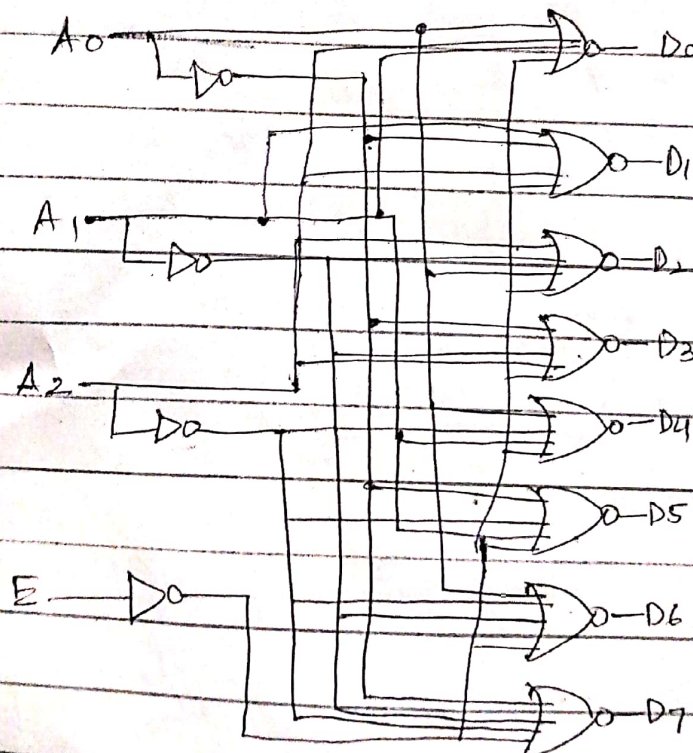
$x_2 \backslash x_1$	0	1
00	d	
01		
11	1	d
10	1	1

$$f = x_2$$

$x_2 \backslash x_1$	0	1
00	d	
01	1	1
11	1	d
10	1	1

$$g = x_1 + x_2$$

3.33.



$E, A_2, A_1, A_0$

0 0 0 0

0 0 0 1

0 0 1 0

0 0 1 1

0 1 0 0

0 1 0 1

0 1 1 0

0 1 1 1

$A_2, A_1, A_0$

$A_2, A_1, \bar{A}_0$

$A_2, \bar{A}_1, A_0$

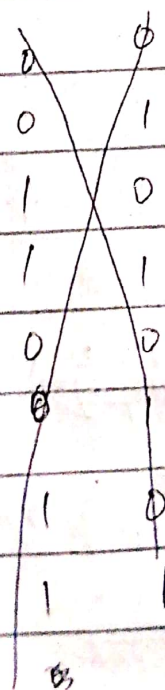
$A_2, \bar{A}_1, \bar{A}_0$

$\bar{A}_2, A_1, A_0$

$\bar{A}_2, A_1, \bar{A}_0$

$\bar{A}_2, \bar{A}_1, A_0$

$\bar{A}_2, \bar{A}_1, \bar{A}_0$





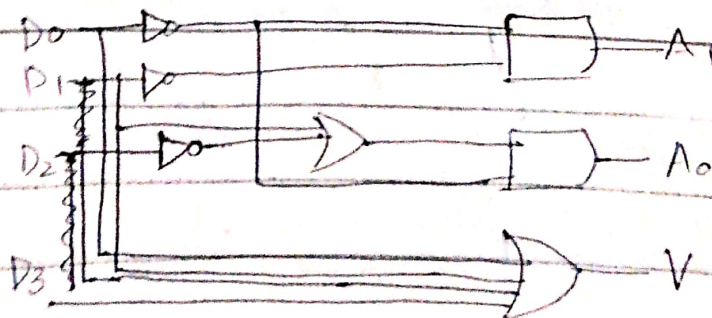
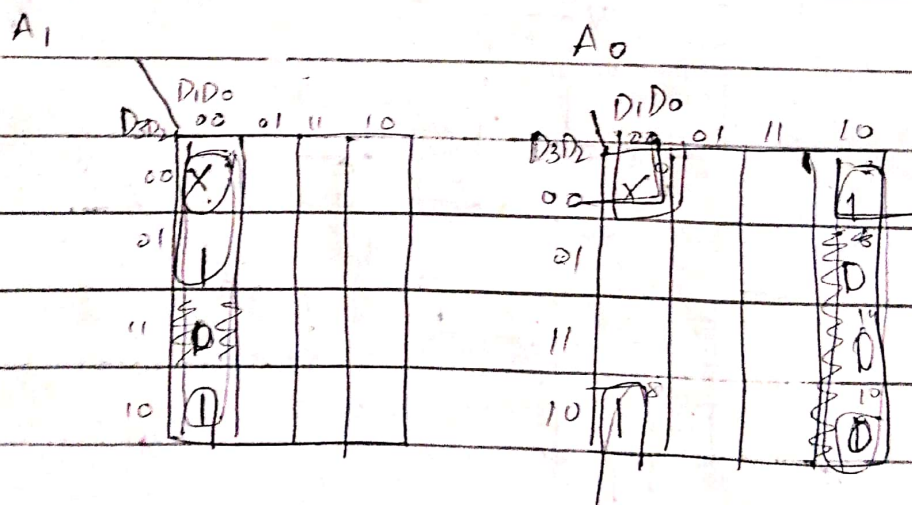
B.3.5

$D_3$	$D_2$	$D_1$	$D_0$	$A_1$	$A_0$	$V$
0	0	0	0	X	X	0
X	X	X	1	0	0	1
X	X	1	0	0	1	1
X	1	0	0	1	0	1
1	0	0	0	1	1	1

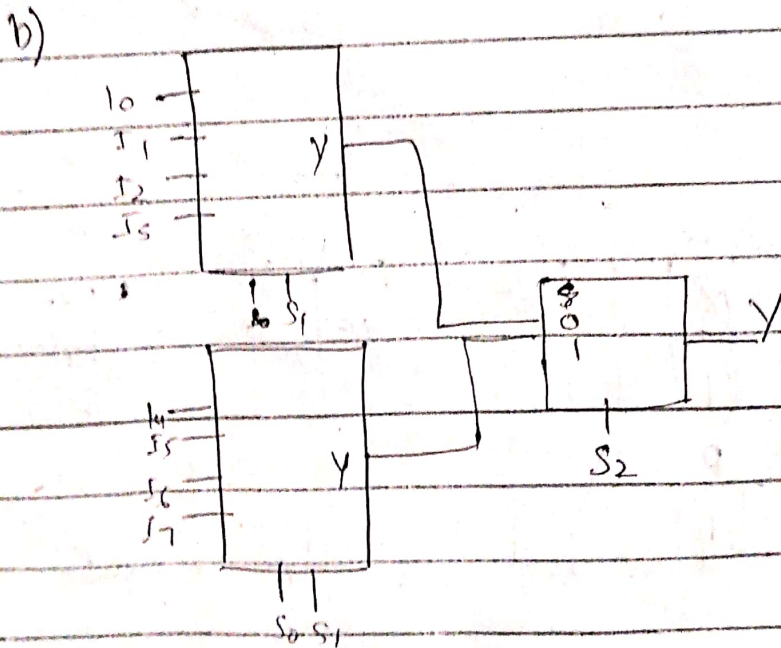
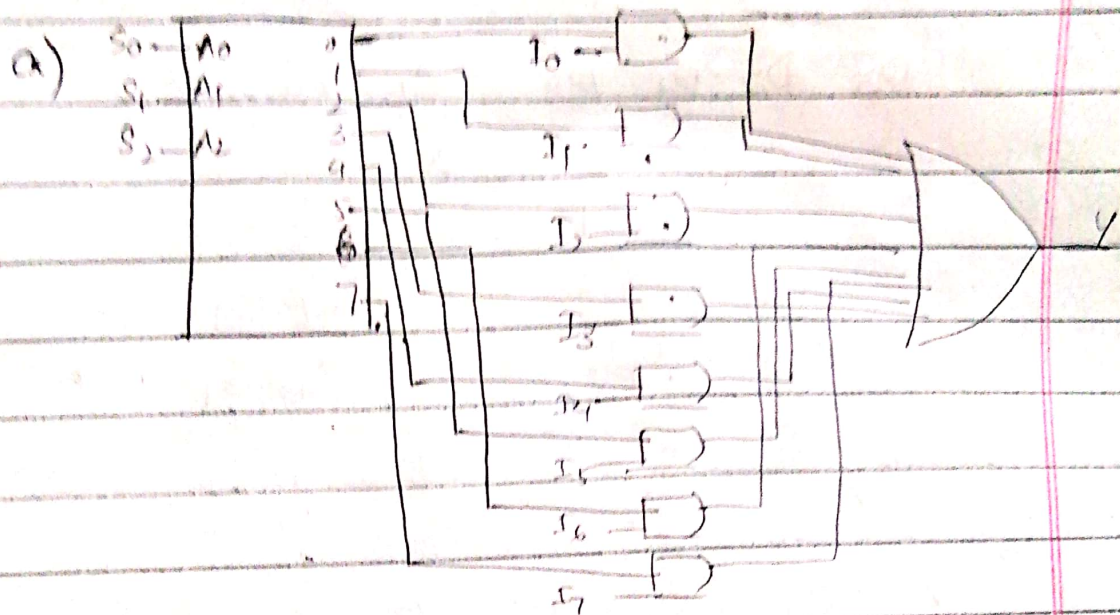
$$V = D_0 + D_1 + D_2 + D_3$$

$$A_0 = \overline{D_0} D_1 + \overline{D_0} \overline{D_2}$$

$$A_1 = \overline{D_0} \overline{D_1}$$



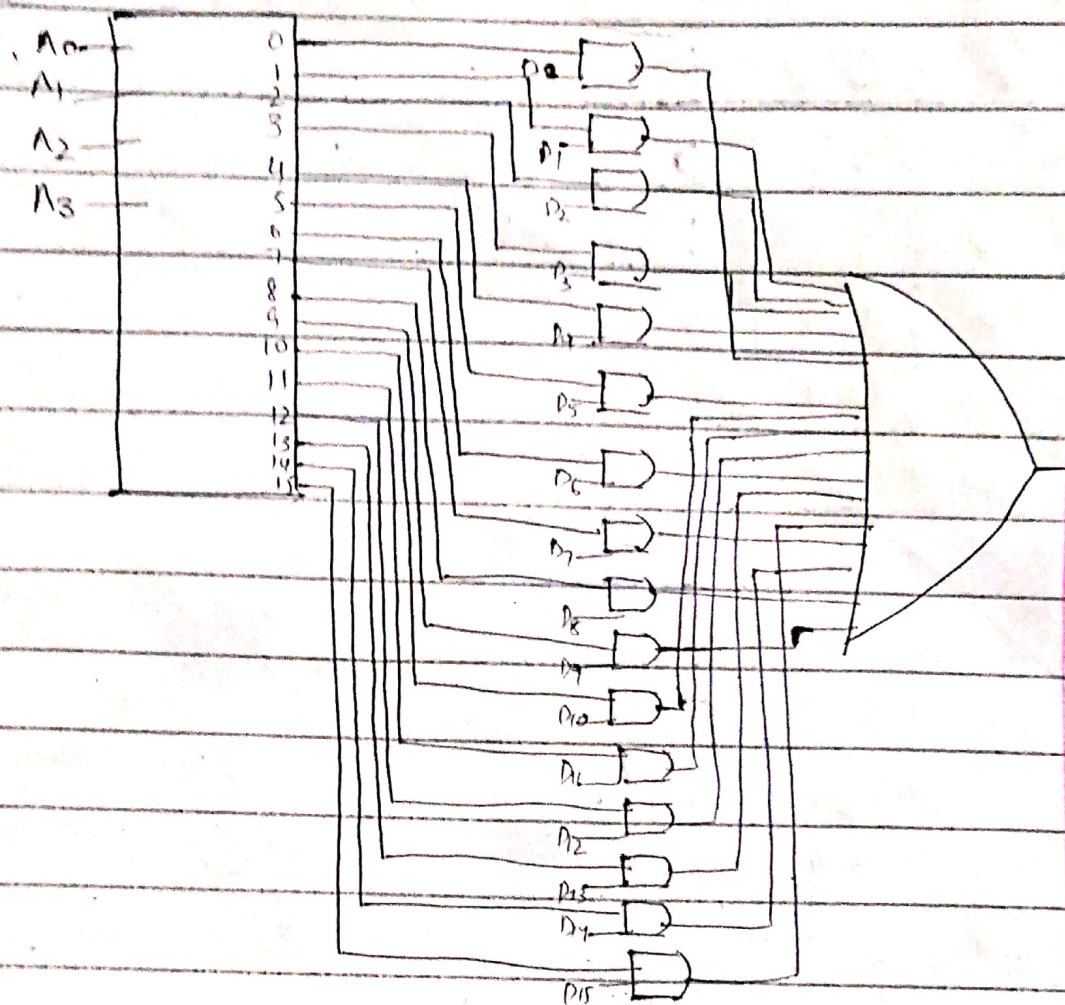
3.37.



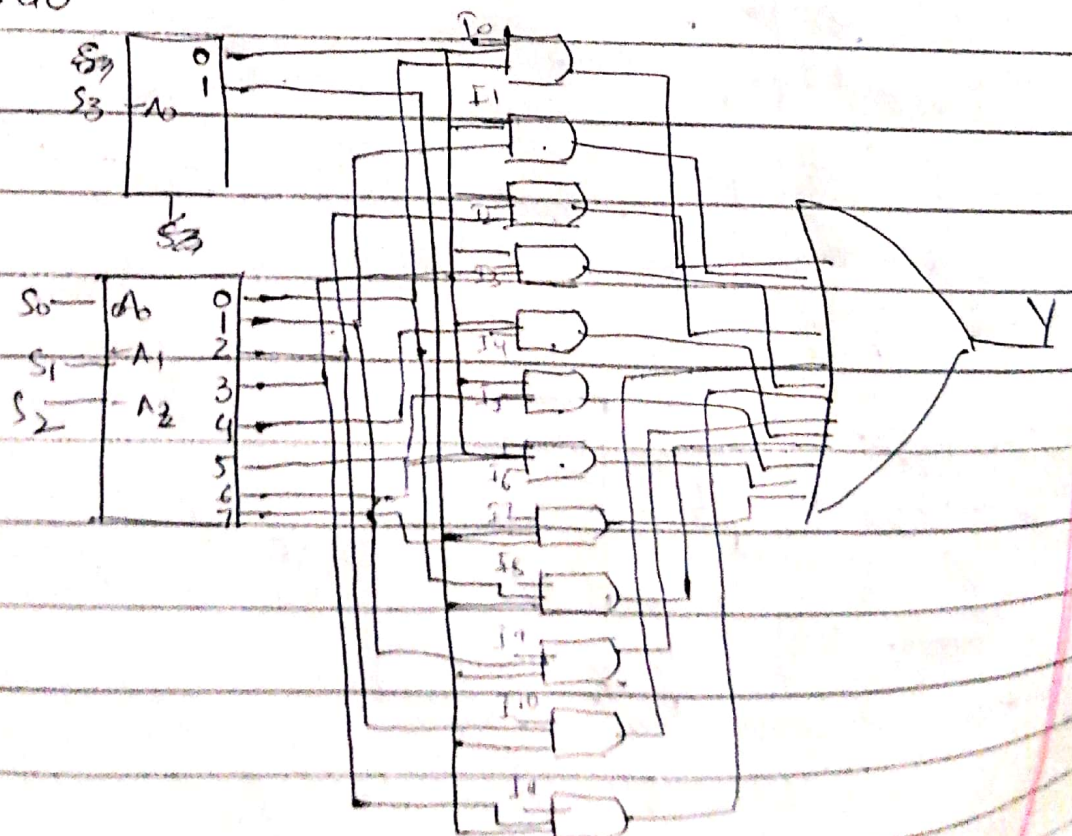
3.38



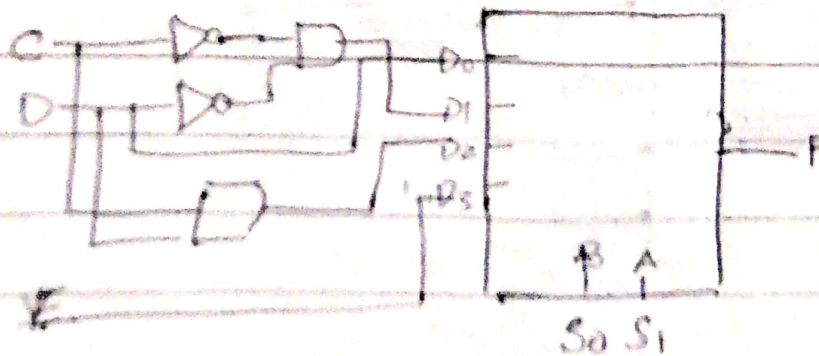
3.38



3.40



A	B	C	D	F	
0	0	0	0	0	F=D
0	0	0	1	1	
0	0	1	0	0	
0	0	1	1	1	
0	1	0	0	1	F=CD
0	1	0	1	0	
0	1	1	0	0	
0	1	1	1	0	
1	0	0	0	0	F=CD
1	0	0	1	0	
1	0	1	0	0	
1	0	1	1	1	
1	1	0	0	1	F=1
1	1	0	1	1	
1	1	1	0	1	
1	1	1	1	1	



E.I



8.59

