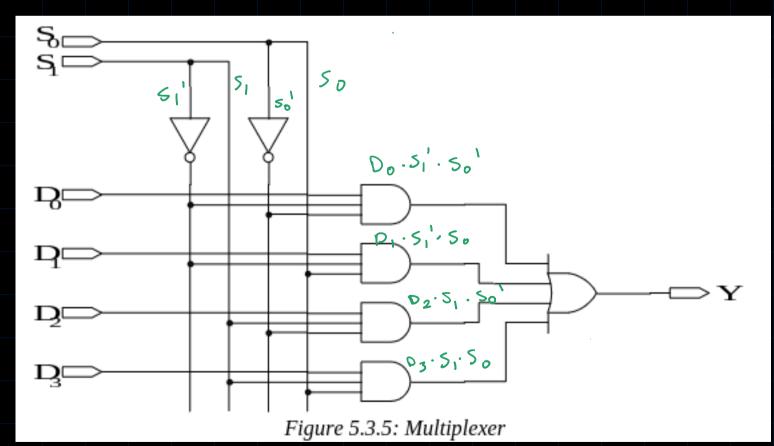


Yo = D !.	Do
$\lambda' = D'$	
$y_2 = D_1$	
$y_3 = D_1$	

Y0 Output			Y1 Output			
D1	D0	D1'.D0'	D1	D0	D1'.D0'	
0	0	1	0	0	0	
0	1	0	0	1	1	
1	0	0	1	0	0	
1	1	0	1	1	0	
Y2 Output			Y3 Output			
D1	D0	D1.D0'	D1	D0	D1.D0	
0	0	0	0	0	0	
0	1	0	0	1	0	
1	0	1	1	0	0	
1	1	0	1	1	1	
_	_	_	_	1	_	_

Part 3 a) 4-1 Multiplexer-



S1	S0	D0	D1	D2	D3
0	0	0	Χ	Χ	Χ
0	0	1	Χ	Χ	Χ
0	1	Χ	0	Χ	Χ
0	1	Х	1	Х	Χ
1	0	Χ	Χ	0	Χ
1	0	Χ	Χ	1	Χ
1	1	Х	Х	Х	0
1	1	Х	Χ	Х	1

 $y = (D_0 s_1' s_0') + (D_1 s_1' s_0) + (D_2 s_1' s_0') + (D_3 s_1 s_0)$ 3.0,