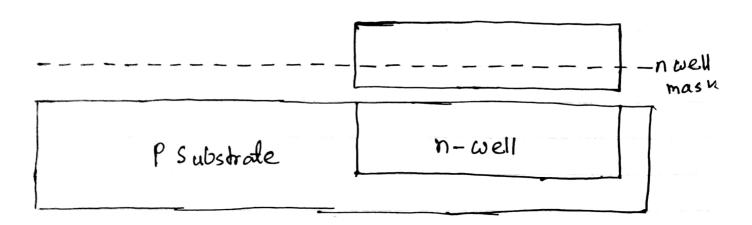
1.@ n-well mask

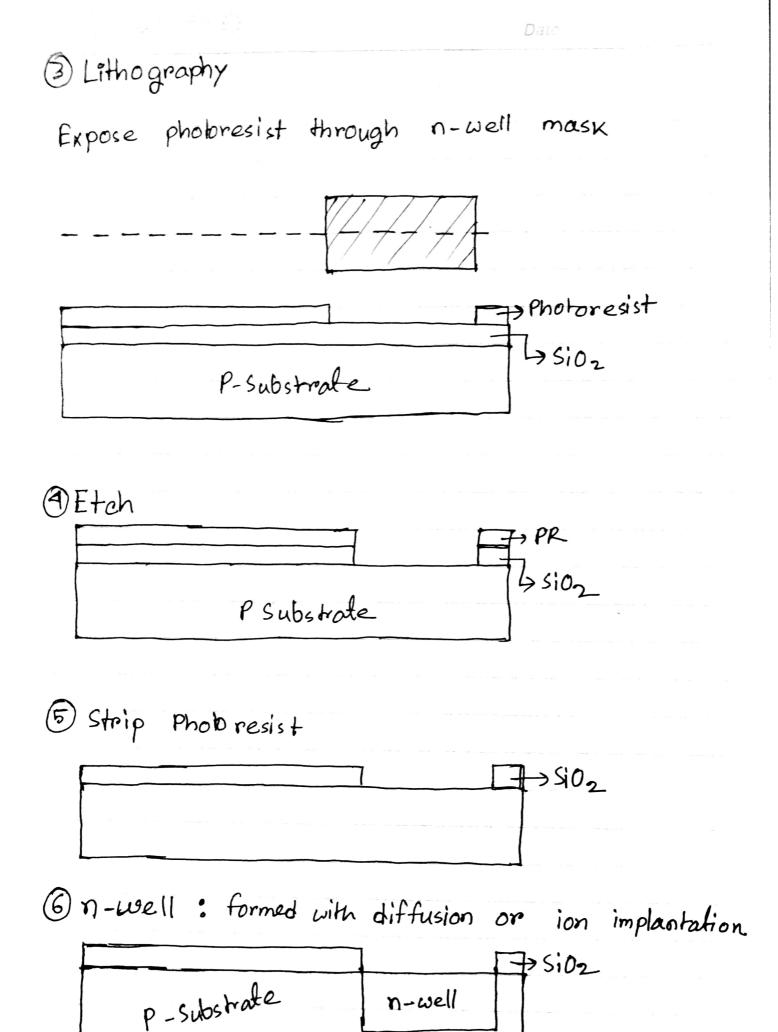


- Osfeps to fabricate n-well
- 1) Oxidation: SiO2 on the top of Sinuatien

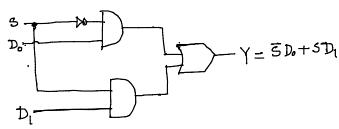


2 Photoresist





2.(a) 2-to-1 multiplexer using basic logic gates:

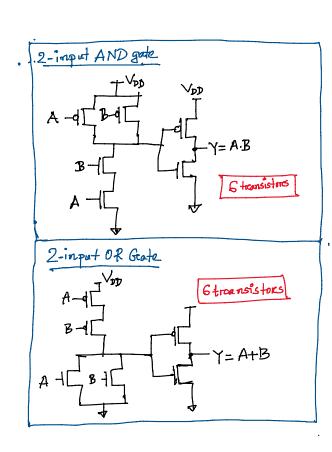


So, total numbers of treansistors required

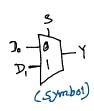
= 2 AND gates + 1 OR gate + 1 inverter

= 2×6+6+2

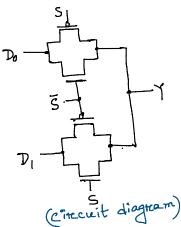
=20



(b) 2-to-1 multiplexer design lesing transmission gates



5 Y 0 Do 1 D (truthtable)



So, total number of transistors required = 4

This design is non-restoring since any noise on the input line goes directly to the output

Mid Spring 122

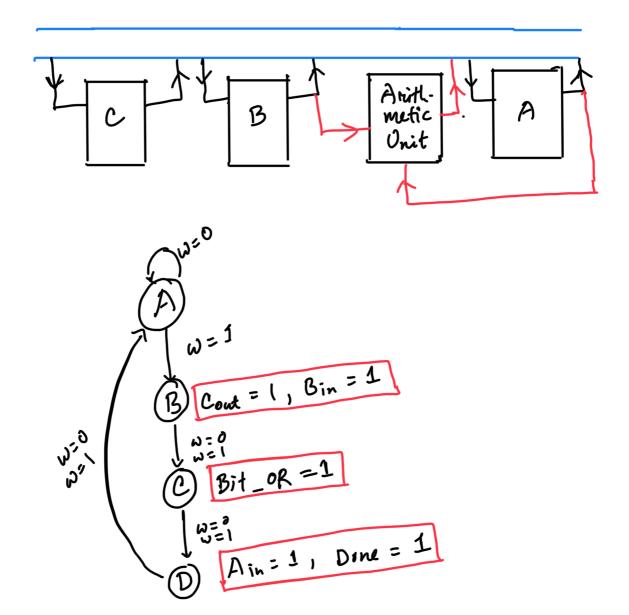
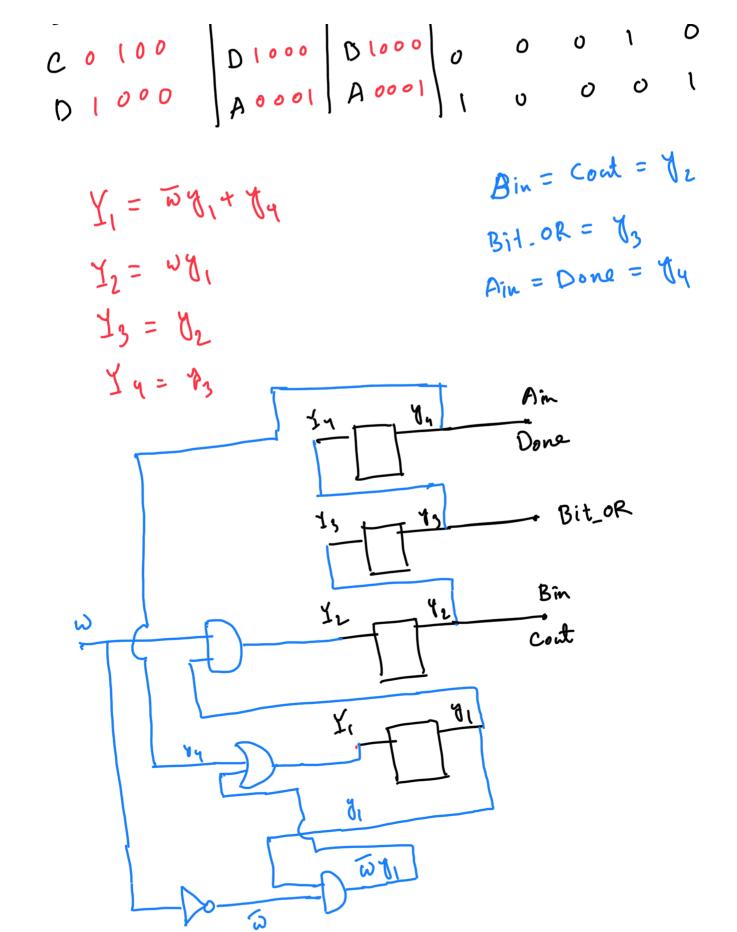
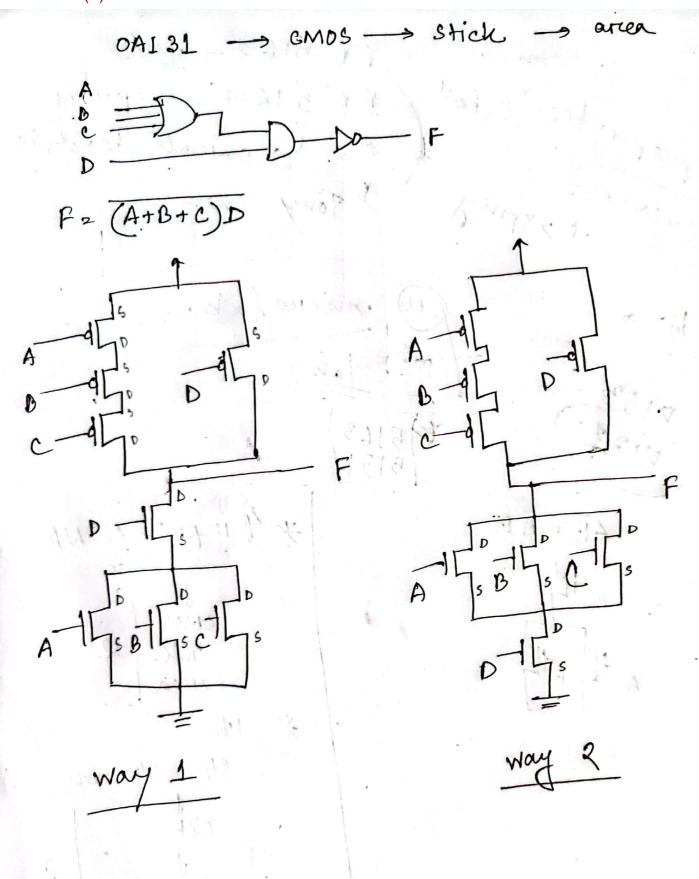
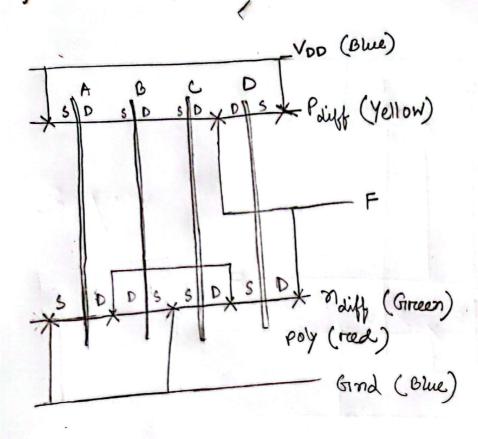


Table	1 blavt	Next State W= 0 W= 1 And Bin Cont Bit-OR					
Present State	7,75 75 71	ا د دووه اله	7 7 JW	Bin	Cont	Bit_or	Done
A 0001	A 000 (B 0010	O	O	0	٥	D
B 0010	A 000 (C 01 00	0	1	l	0	0







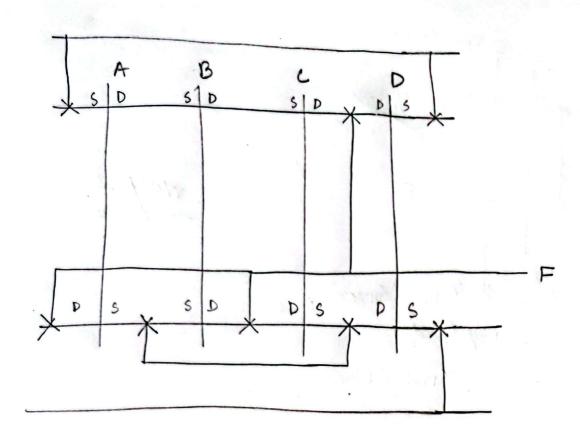
height: 6 treachs :. (6×8) X 2 48入

width: 5 tracks

:. (5×8) >

, 40入

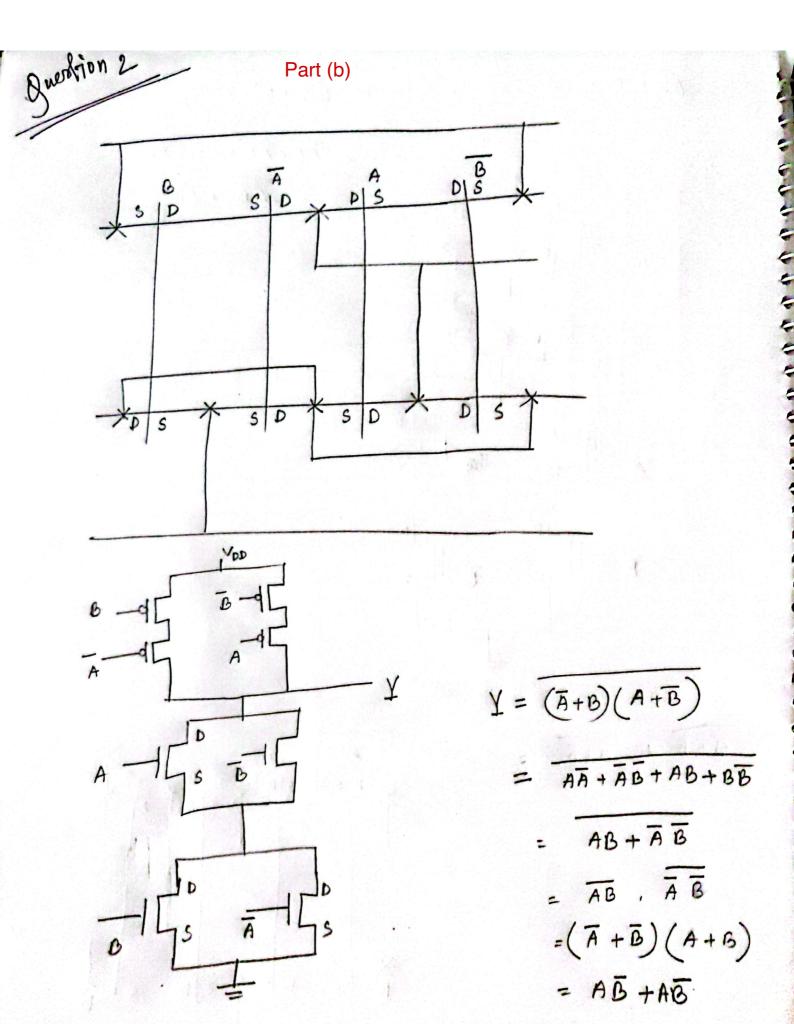
48 × 40 × area = 1920. >2



neight: 48X

40>

1920/2 area



XOR Gate

A	B	Y
0	0	0
0		1
1	70	
1)	0
`		