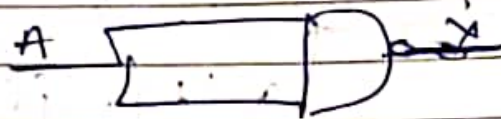
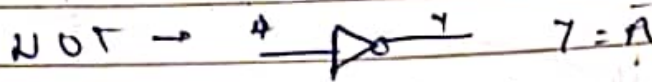
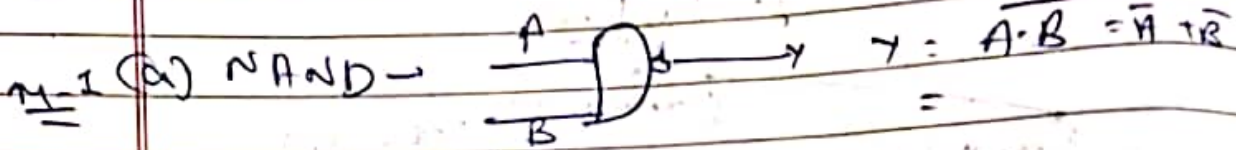


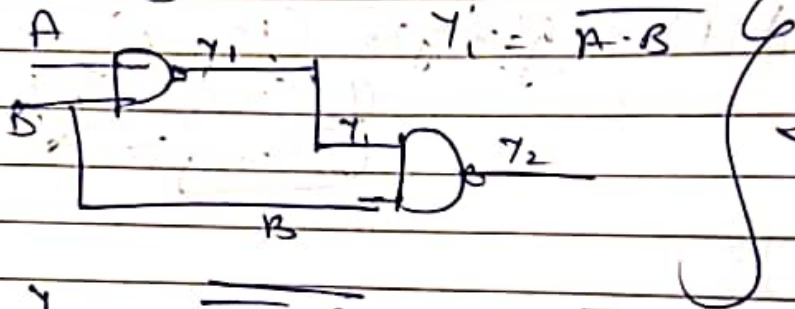
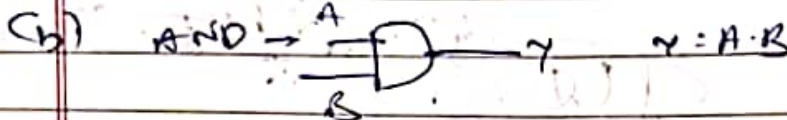
Electronics

A-1

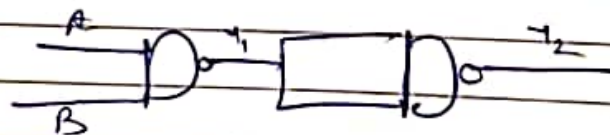
Part 2



$$Y = \overline{A \cdot A} = \overline{A^2} = \overline{A}$$



$$Y_2 = \overline{\overline{A \cdot B} \cdot B} = AB + \overline{B}$$

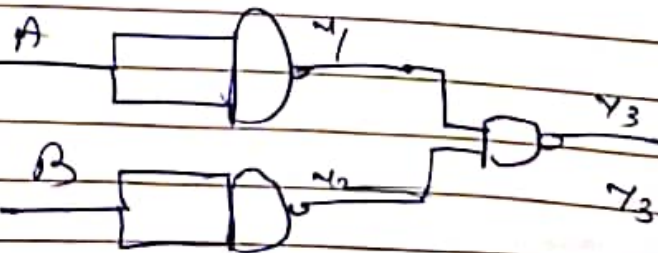


$$Y_1 = \overline{A \cdot B}$$

$$Y_2 = \overline{\overline{A \cdot B} \cdot \overline{A \cdot B}}$$

$$Y_2 = AB + AB = AB$$

(c)



$$Y_3 = \overline{\overline{A} \cdot \overline{B}} = A + B$$

$$Y_1 = \overline{A} \quad Y_2 = \overline{B}$$

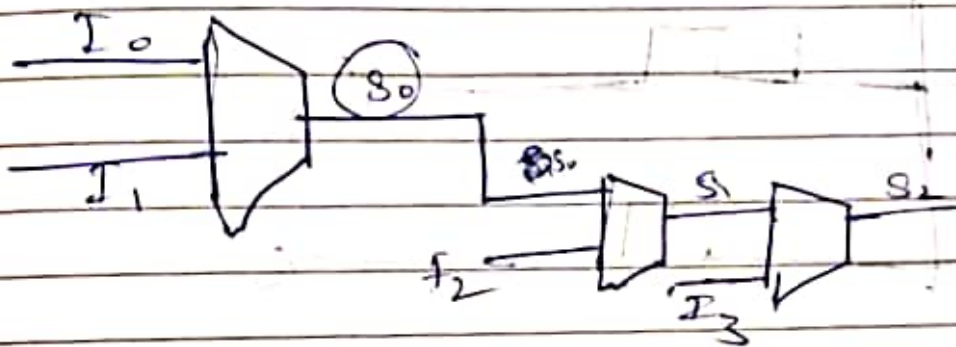
M-2 (Q2)

A	B	S	C
0	1	1	0
1	0	1	0
0	0	0	0
1	1	0	1

Q2) $S = AB$
 $C = \overline{A}B + A\overline{B}$

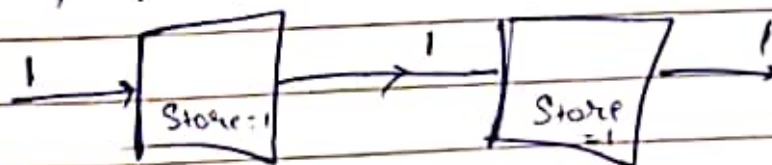
Q3) For S - XOR. For C - AND.

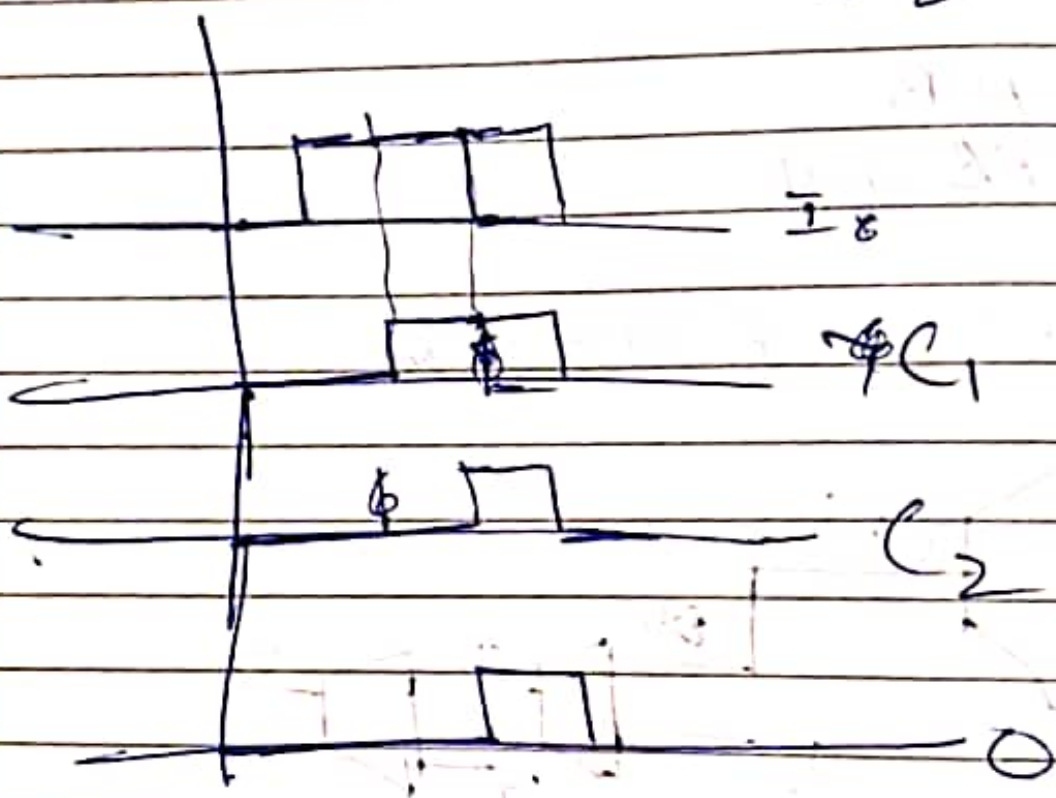
M-3



M-4 (Q3)

Q3) 2 flip flops as when 1st one come it get stored & when 2nd 1 come then we allow the clock timing to release that 1 to another flip flop and then 3rd 1 come then we allow 2nd flip flop to release which gave output 1





M-5