## Solution T2

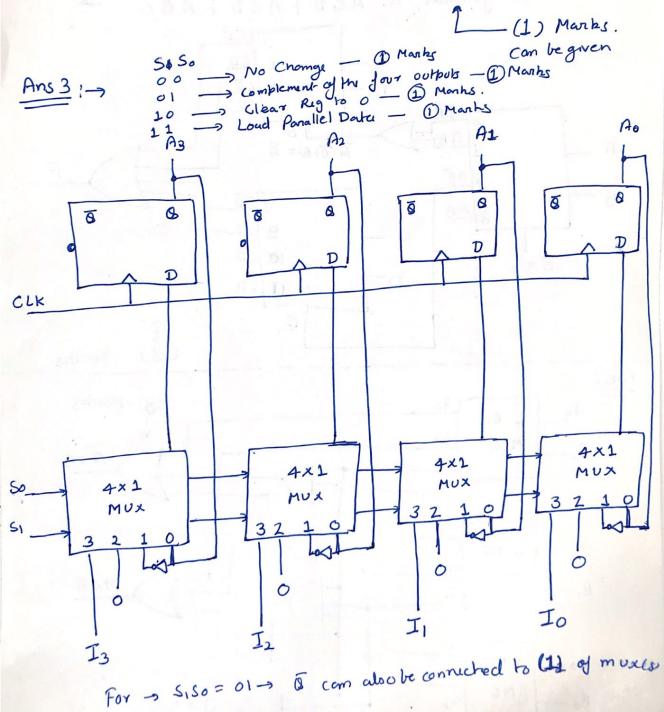
Ans 1 /-> 
$$F(A,B,C,D) = \sum m(1,256,8,9)$$
Reduced Junchen =  $\overline{A} \subset \overline{D} + \overline{A} \subset \overline{D} + \overline{A} \subset \overline{D}$ 

$$C = \frac{1}{16D}$$

$$C = \frac{1}$$

We know that

For  $A > B \Rightarrow A_2 \overline{B}_2 + (A_2 \overline{\bigcirc} B_2) A_1 \overline{B}_1 + (A_2 \overline{\bigcirc} B_2) (A_1 \overline{\bigcirc} B_1) A_0 \overline{B}_0$   $A < B \Rightarrow \overline{A}_2 B_2 + (A_2 \overline{\bigcirc} B_2) \overline{A}_1 B_1 + (A_2 \overline{\bigcirc} B_2) (A_1 \overline{\bigcirc} B_1) \overline{A}_0 B_0$   $A = B \Rightarrow (A_2 \overline{\bigcirc} B_2) (A_1 \overline{\bigcirc} B_1) (A_0 \overline{\bigcirc} B_0)$ 

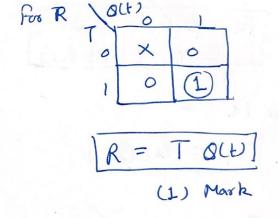


## Ans 4

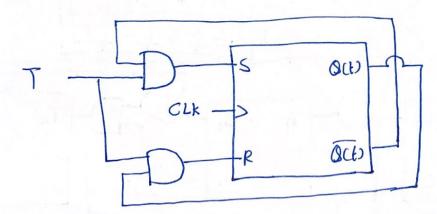
## SR Flip Plop to T- Plip Flop

T 
$$O(1)$$
  $O(1)$   $O(1)$ 

For S. 
$$T = T = Q(t)$$



## Ckt Dragram



(1) Mark

