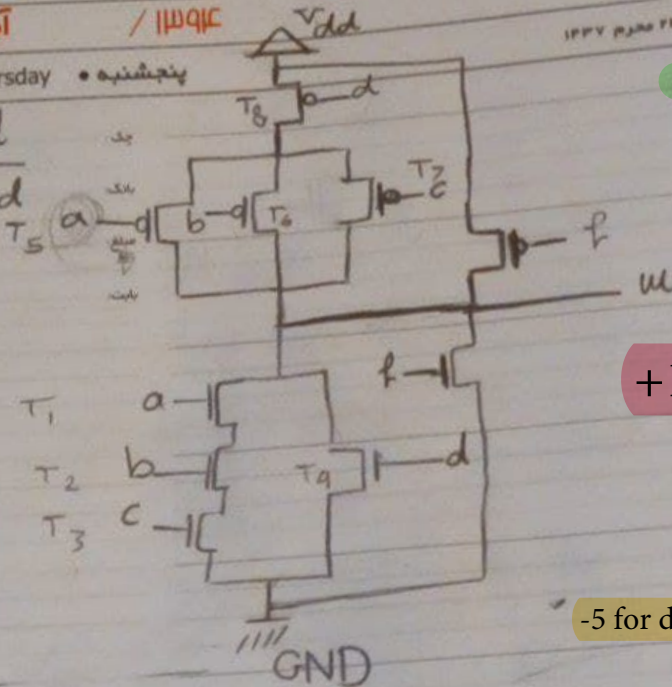


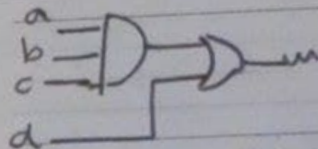
$$f = abc + d$$

$$= (\bar{a} + \bar{b} + \bar{c})d$$



+15

-5 for did not implement not gate



-10

$u: 0 \rightarrow 1 \rightarrow a: 0 \rightarrow 1 \rightarrow T_5: 1 \rightarrow Z = \Delta nS \rightarrow d: 0 \rightarrow 1 \rightarrow T_8: 1 \rightarrow Z = \Delta nS$
 $u: 1 \rightarrow 0 \rightarrow a: 1 \rightarrow 0 \rightarrow T_1: 1 \rightarrow Z = \Delta nS$
 $b: 1 \rightarrow 0 \rightarrow T_2: 1 \rightarrow Z = \Delta nS$
 $c: 1 \rightarrow 0 \rightarrow T_3: 1 \rightarrow Z = \Delta nS$

-10