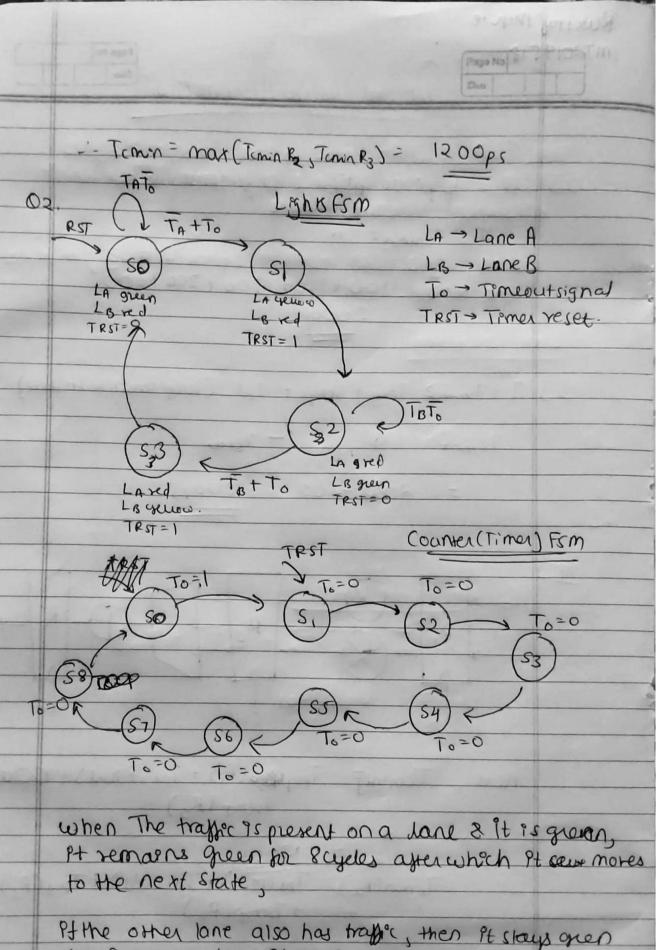
Ruting Monite 1MT2019518 Usgital Design Assignments I] To 2 Toug + Tourpt Tol [Stelly Constraint] 9 :: Temen = 11 100 +200+ 900 +300 +000 200005 II) Te + Tskew 2 Tpcq + Tschp + Tpd { Setup constr. with Skew} :- Tcmon = 11 - Tokew 2000 -200 = 1800 ps 11 CLK Here, Tempore Togoto (R,) + Tps (8 mus) + Tegros) Tserup (Rz) = 1200ps Terro (R2) = Tpd (mur) + Tpd (add) + Tprg (R3) +Tscrap(R2)

= 1100ps



The FSM is split into 2 factors Counter & Lights FSM, counter Module & outputs To, the which tells when time out oceans.

when lights from moves on states SI or SZ, of resets the tomer.

## State encoding

0 0

SO 0 0 SI 0 1

SZ 1 C

S Next steve logic

Si' = Si · (So·TA + SoTB + To)

So = So S S21

State transition table