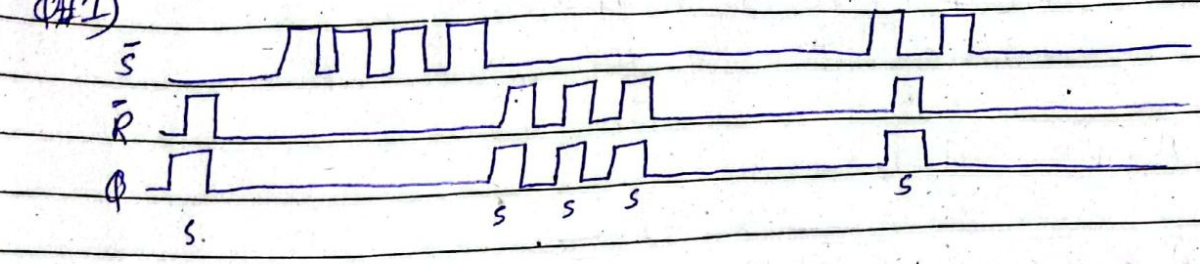
23K-0800 Moheez
BCS-2J

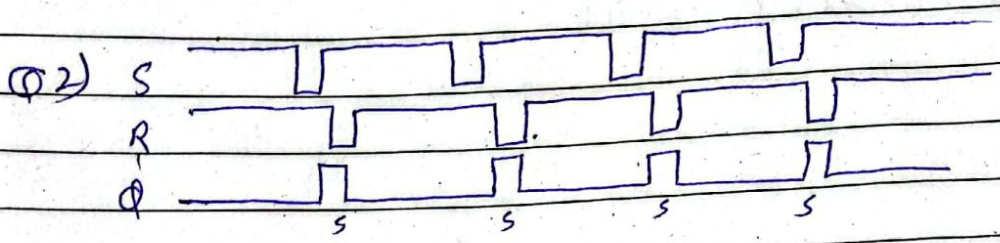
Assignment 3

Date:

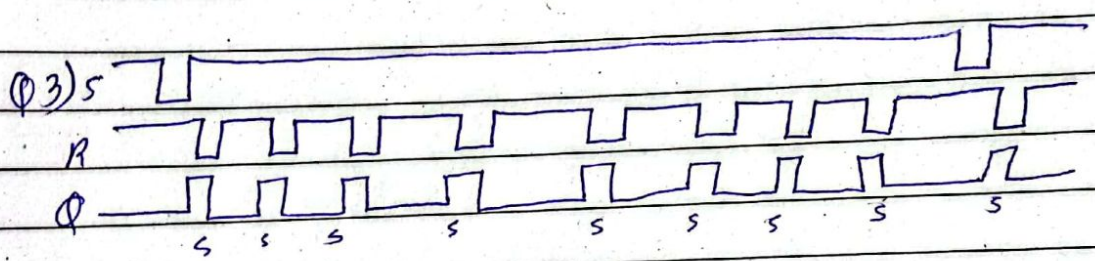
Q#1)



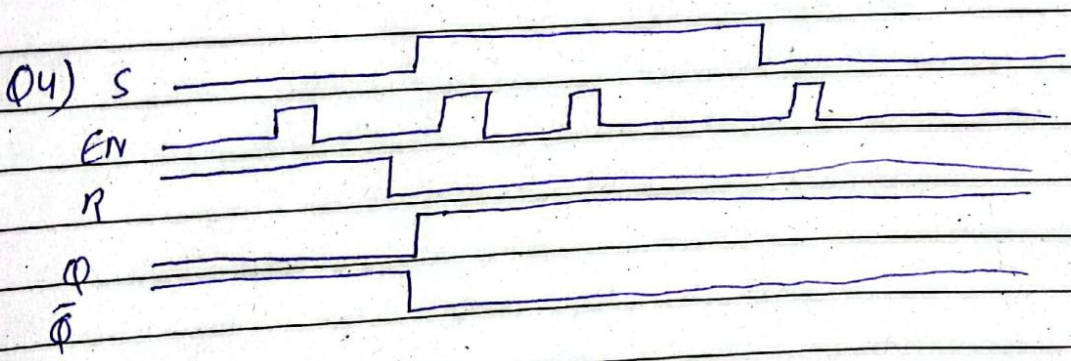
Q2)



Q3)



Q4)



Q5) fig5

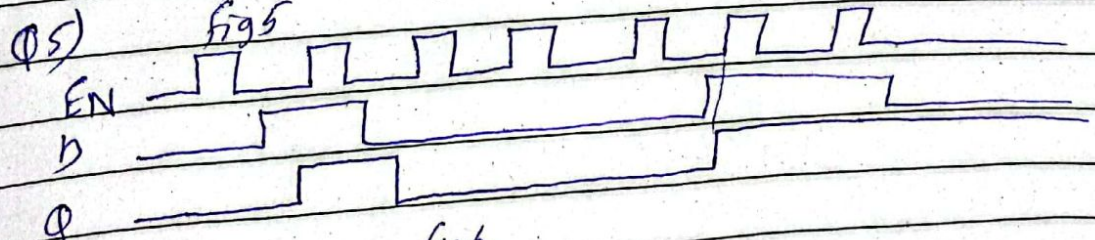
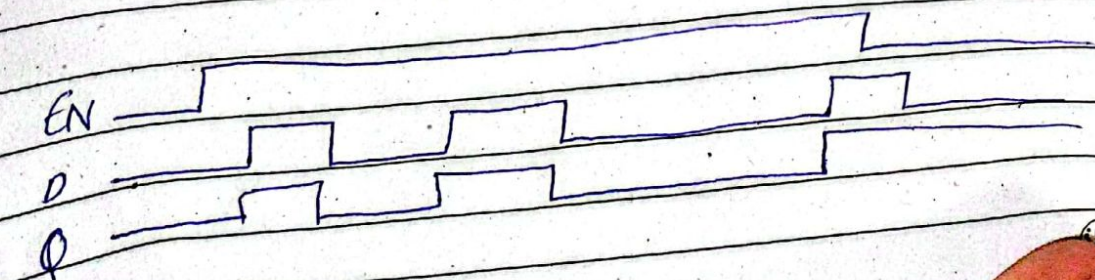


fig6.



Date:

(Q6) CLK

Q

D

(Q7) CLK

D

Q

(Q8)

fig 9.

CLK

D

Q

fig 10.

CLK

D

Q

(Q9) CLK

J

K

$\overline{PRE}$

$\overline{CLR}$

Q

Date:

(10) CLK

J

K

Q

Toggle Toggle & toggle

(11) CLK

J_1

J_2

J_3

K_1

K_2

K_3

Q

Toggle

Q12

CLK

f'

This circuit can be reduce to frequency of clk as $\overline{Q}$, as arrangement comprises of 1 flipflop.

$\therefore f' = f/2$.

Date:

Q13