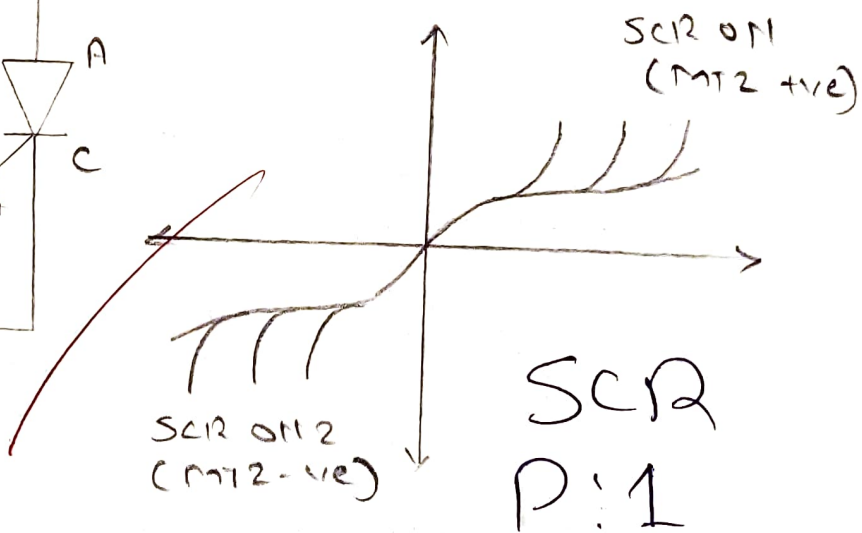
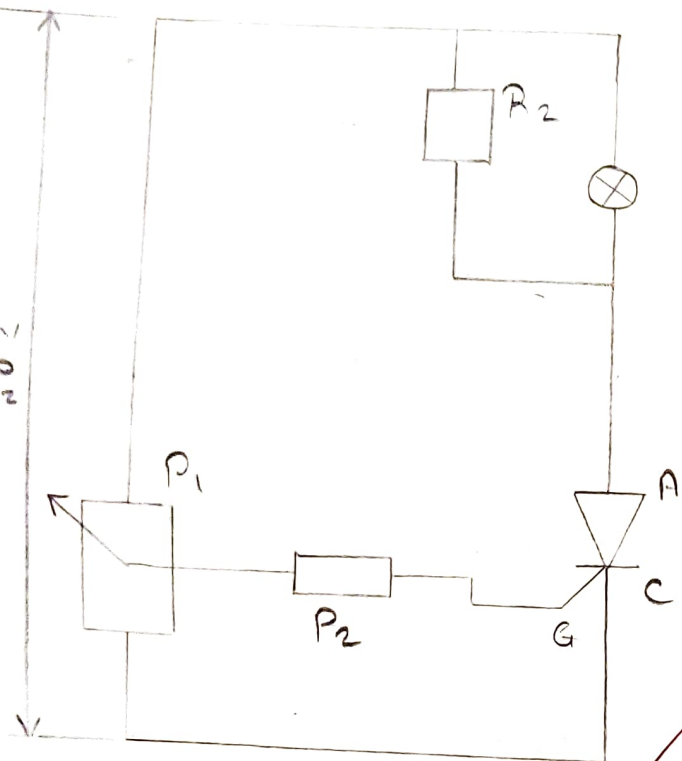
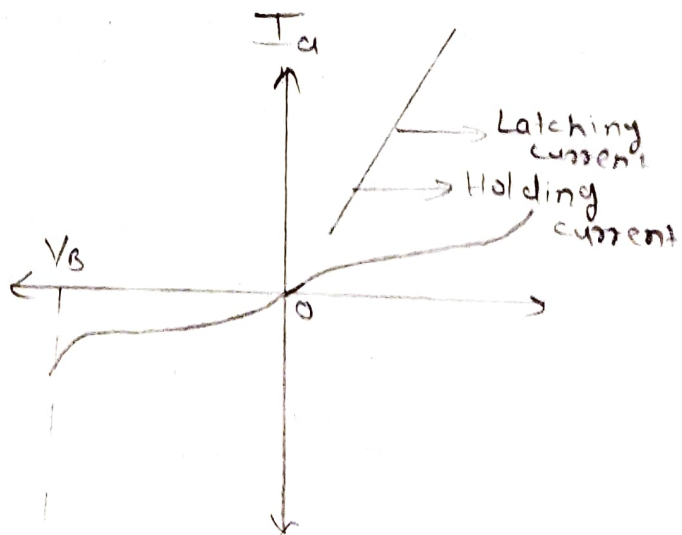
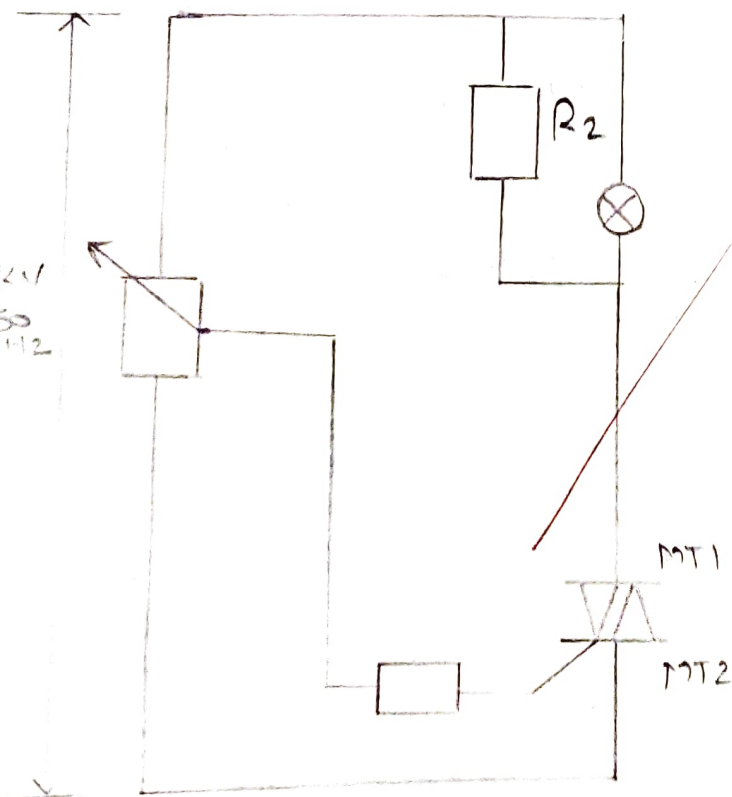


50  
KV  
H2



50  
KV  
H2



## OBSERVATIONS

P-1 SCR

Observation Table :-

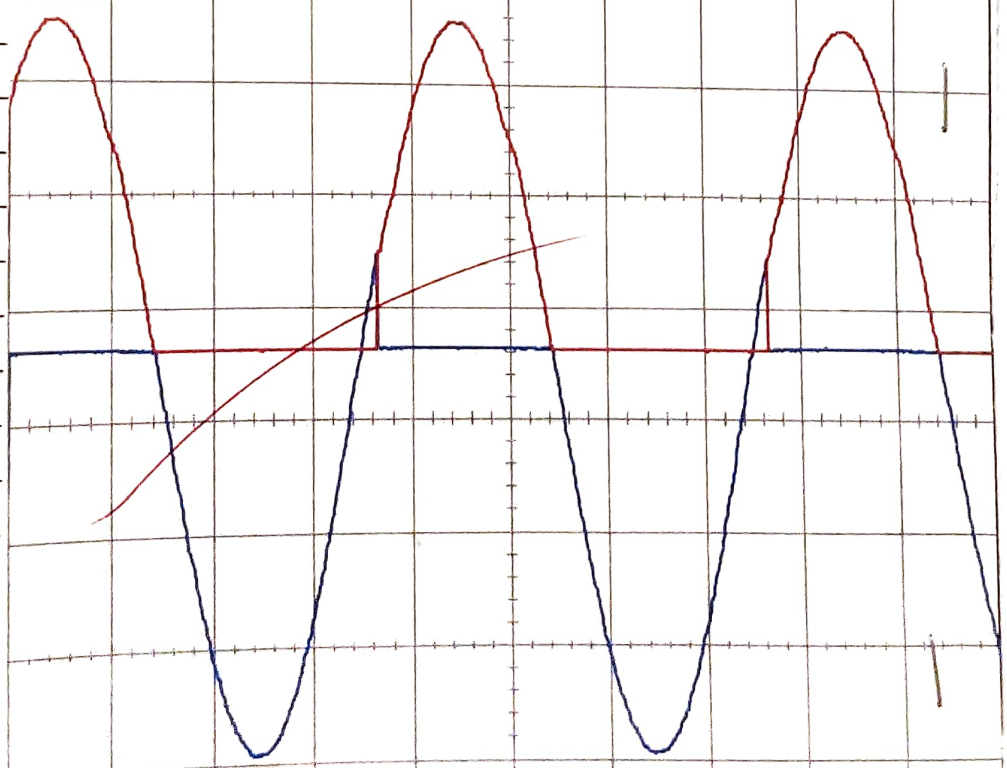
SCR :-

Trace :-

$\alpha$ ( $^{\circ}$ )	$V_a$	$\alpha$ ( $^{\circ}$ )	$V_a$ (V)
0	5.5	min	9.8 V
30	5.3		
45	5.1	max	7.75 V
60	5.0		
75	4.7		
90	0.0		

Low firing angle	$V_a$ (V)
medium firing angle	5.48 V
High firing angle	5.18 V
	4.60 V

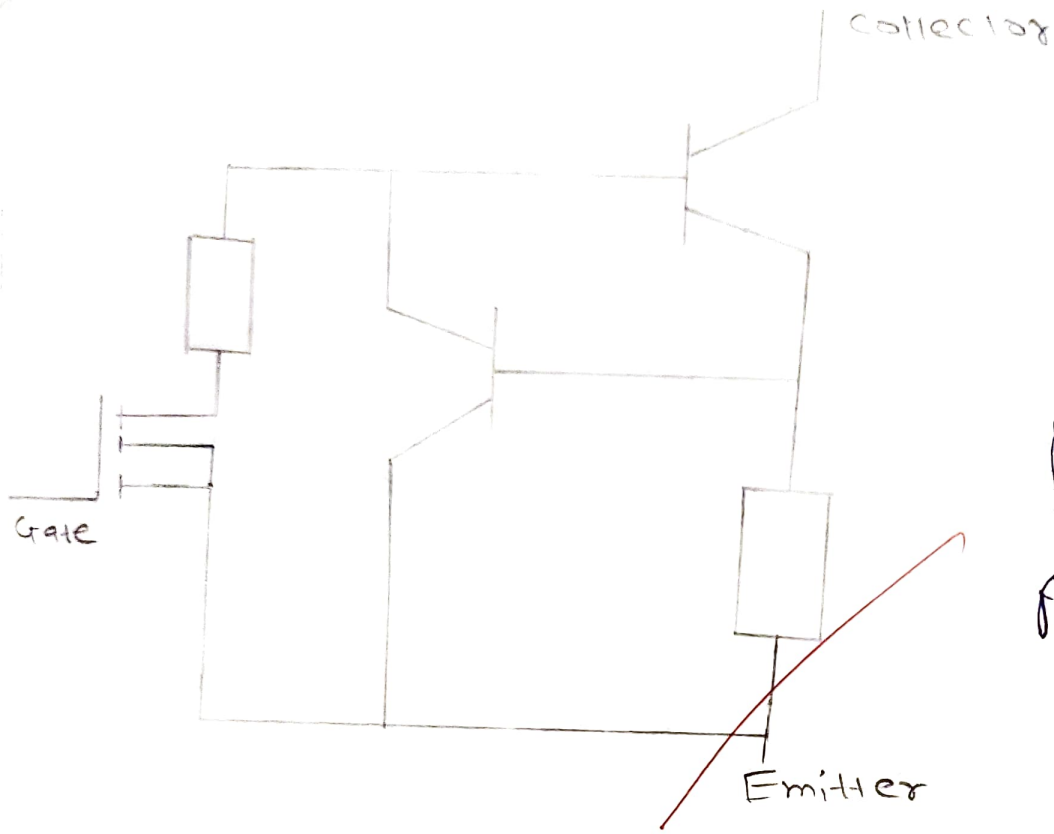
T: 5 ms/DIV



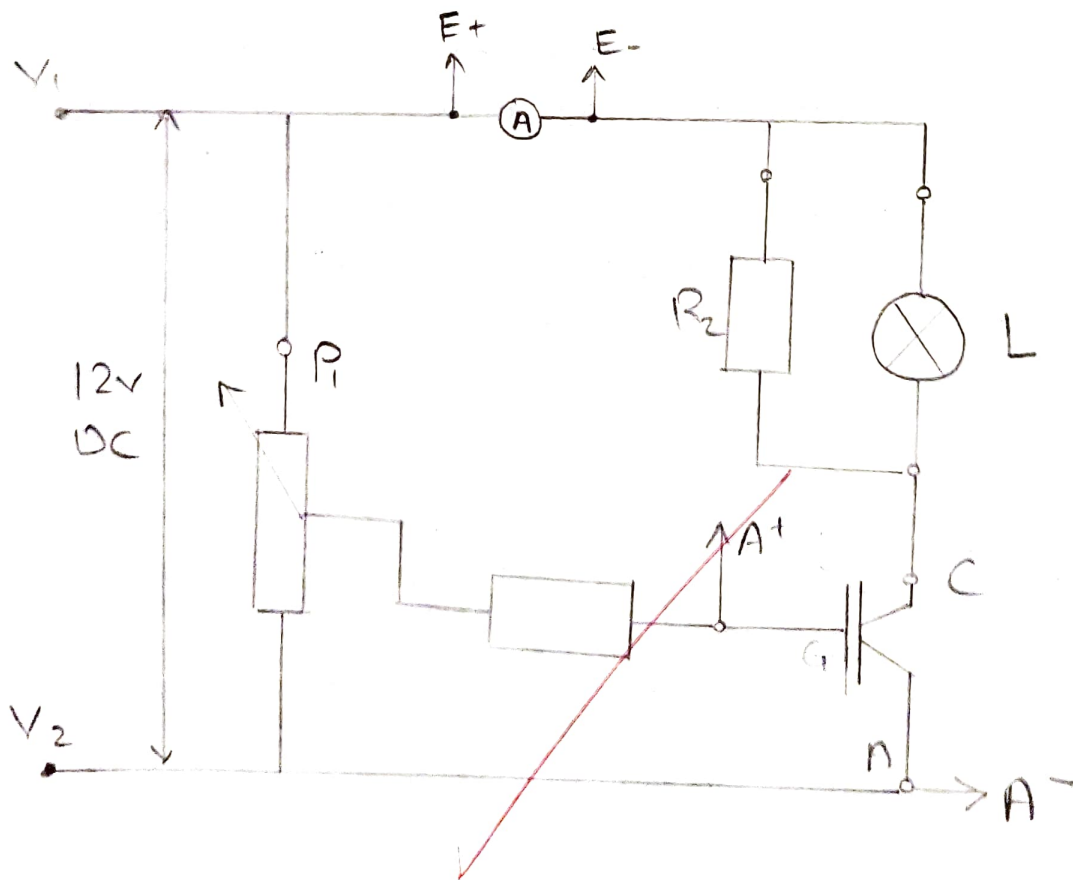
■ A [5 V/DIV] DC  
 ■ B [5 V/DIV] DC

XT

03



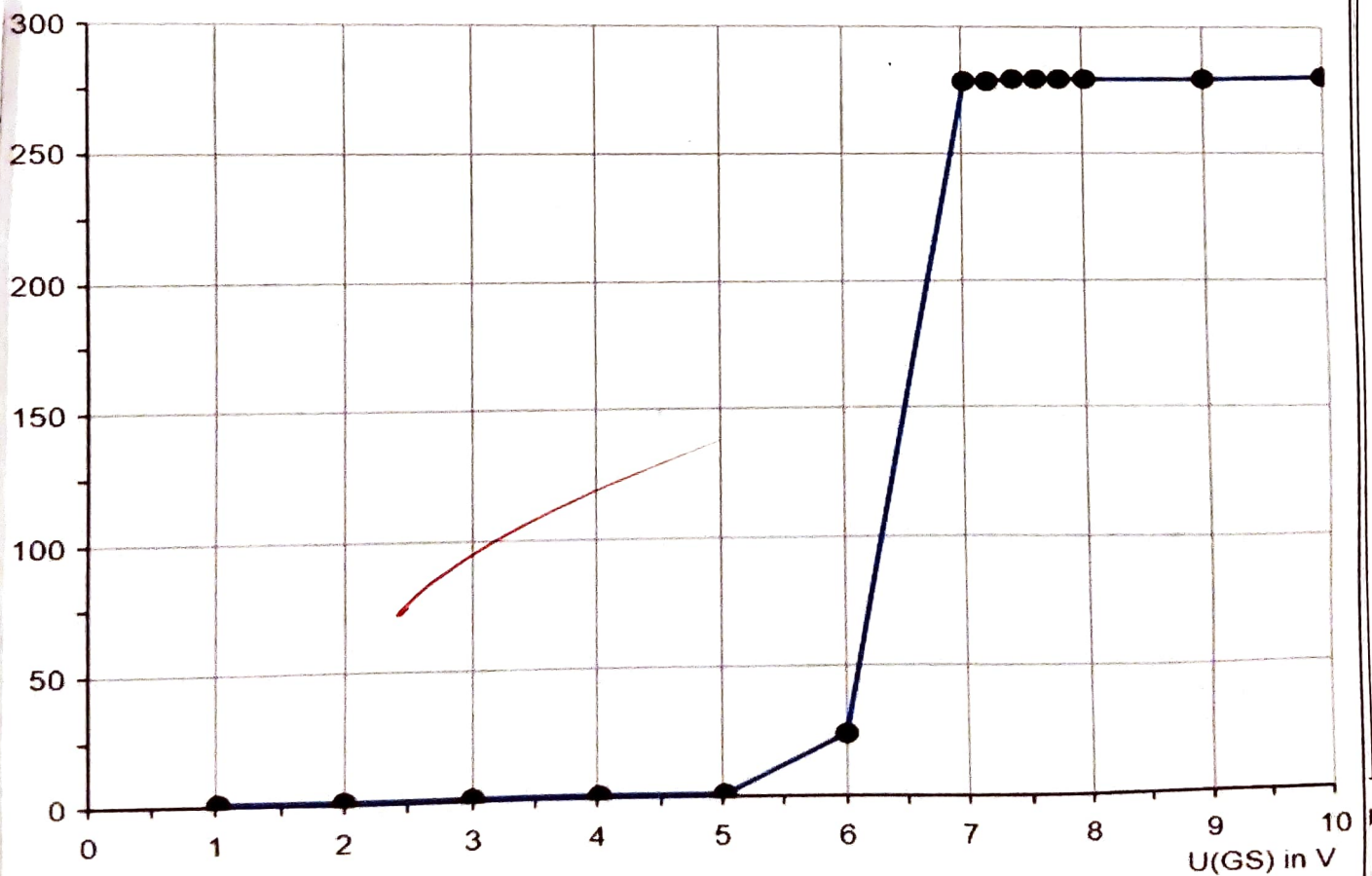
P2  
mosfet  
& IGBT.



## OBSERVATIONS

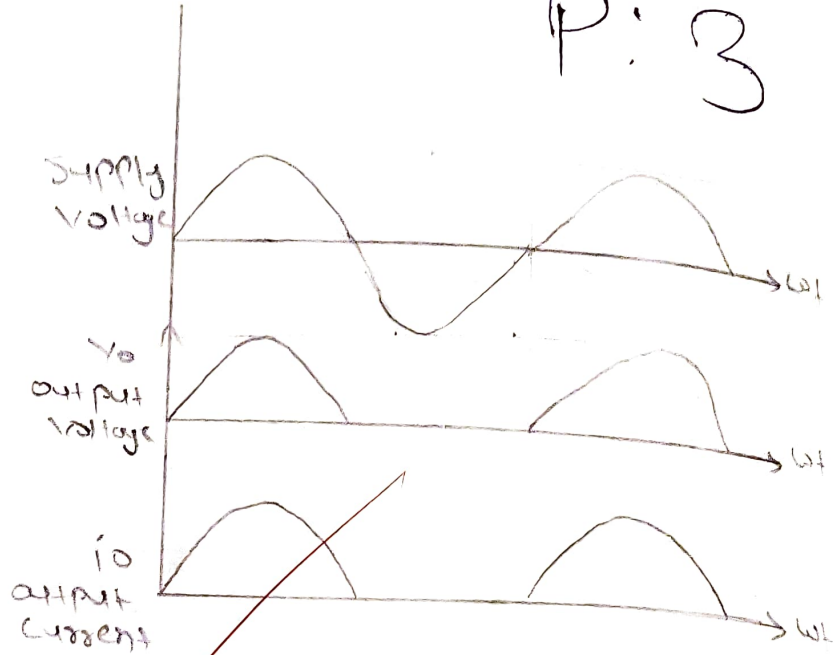
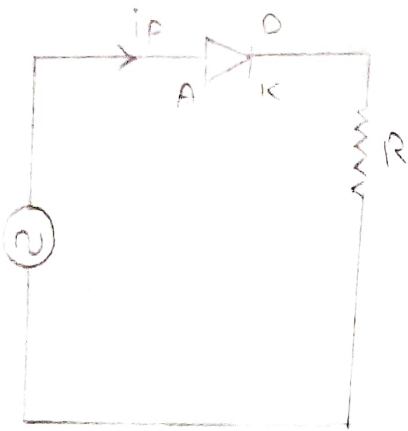
P: 2 mosfet IGBT

$V_{ge}$ (V)	$I_1$ (mA)	$V_{ge}$ (V)	$I_1$ (mA)
0.5	1.2	1.0	1.1
2.0	1.2	2	1.1
3.0	1.2	3	1.1
3.2	1.2	4	1.1
3.4	0.6	5	1.1
3.6	6.1	6	18.4
3.8	25.4	7	278.1
4.0	89.8	7.2	278.6
4.5	294.6	7.4	279.0
5.0	294.6	7.6	279.2
5.5	294.6	7.8	279.3
6.0	294.6	8.0	279.6
7.0	294.6	9.0	279.7
8.0	294.6	10.0	279.7
9.0	294.7		
10.0	294.7		

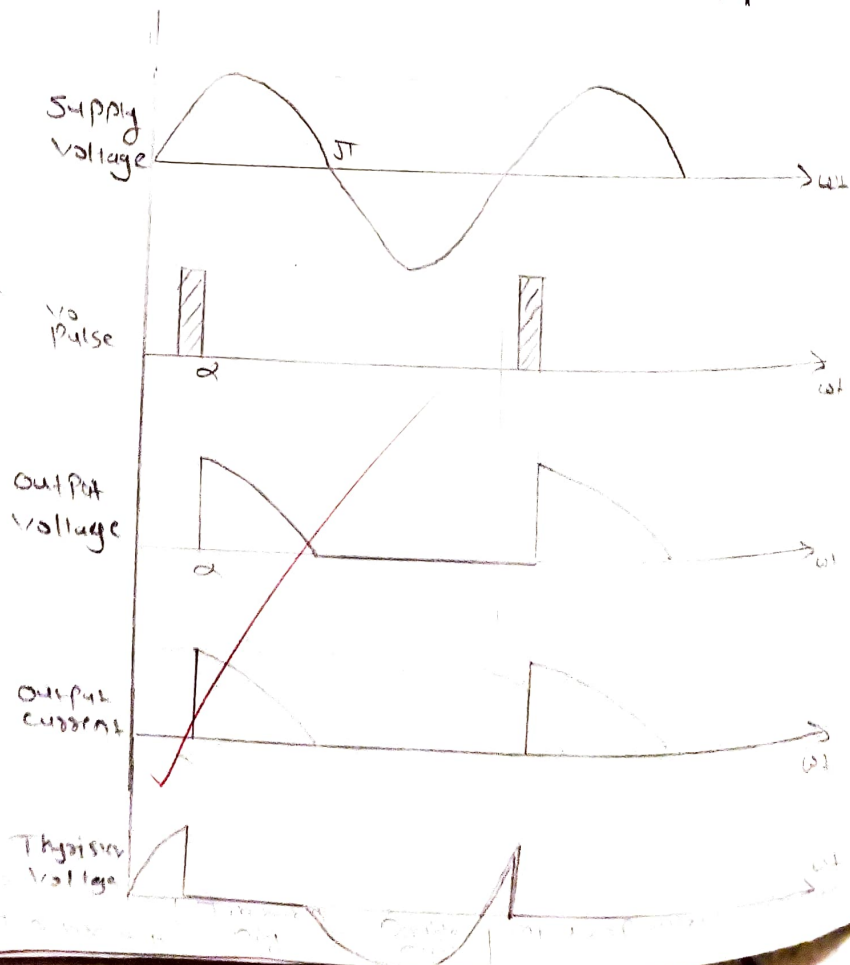
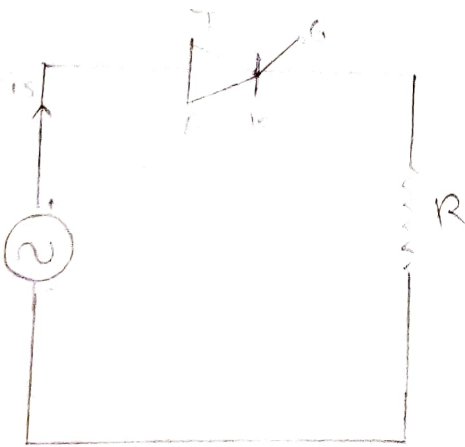


Ø1 Half wave uncontrolled rectifier with R-load.

P: 3



Ø1 Half wave controlled rectifier with R load.





# Single phase half wave controlled Rectifier with R-L load

P. 3

