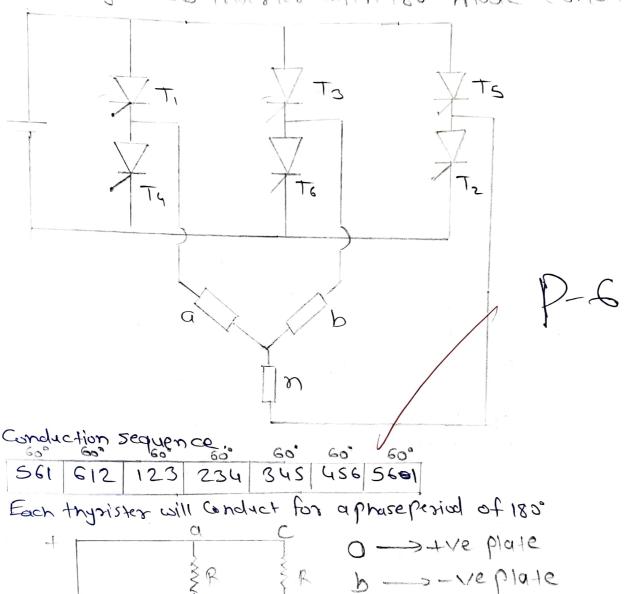
· circuit Dig of 30 inverter with 180° mode conduction.



Regn =
$$\frac{R \times R}{R + R} = \frac{R^2}{2R} = \frac{R}{2}$$

$$T = \frac{V_S}{R} = \frac{V_S}{R_{2}+R} = \frac{2v_S}{3R}$$

$$Van = Van = \frac{2vs}{3R} \times \frac{2v$$

$$Vnb = IR$$

$$= \frac{2vs}{R} \times R$$

$$Vnb = \frac{2vs}{s}$$

Triforence:

Trifo

The phase is connected to supply the Visha = 2xs/3

'+' terminal of battery = 2xs/3

'-' terminal of battery = -2xs/3

Sequence	Van	A pm	Vcn	(
561	115/3	-2vs/3	Vs/3	-
612	2 vs/3	-V\$13	-Vs/3	
123	V3/3	Vs/3	- 2 Ns / 3	۹.
234	- Vs/3	2 Vs/3	- Vs/3	- (
345	-2 vs/3	Ns/3	Vs)3	ri
956	- Vs/3	-Ys/3	2 vs/3	

Design of 30 Invertex with Po mode conduction: 1/5 = 24x Step-I] To determine RMS Value of line voltage Vine = 0.7078 Vilne = 16,968 x Step-II] To determine Ams ralle of Phase Voltage. Vphase = Vline = 9.79V Vphase = 9.79 V Step-III] f= SOHZ T = 1/4 = 1/50 = 0.02 sec. for 360° → 0.02 sect Phase delay all below for 180° → 0,01 Sec 1° -> 5.55 x10-5 sec 10148 a) for fixing angle 00 -> 0.x5.55 x 10 = 0 -> Thy 1 b) for fixing angle 120° -> 120 x/5,55 x10-5 = 6.66 x 10-3-Thy2 J for firing angle 180 → 180 × 5.55 × 10-5 = 0.01332 → thy 5 of for firing angle 300 -> 300 x5.55 x10 = 9.99 x10 = 7hy &
ed for firing angle 60 -> 80 x5.55 x10 = 3.33 x10 => Thy 2

of for firing angle 240 -> 240 x5.55 x10 = 0.01332 -> Thy 5 > +) for floting angle 240°-6.66e-3 0_1 Blue colour warten 120-3

