

Conven
$$V_{n} = 0.5V$$

$$V_{1} = \frac{1}{2} \cdot \frac{Vp}{R(J_{in})}$$

$$0.5 = \frac{1}{2} \cdot \frac{15\sqrt{3}}{(1000)(c)50}$$

$$C = \frac{21.21}{5,0000}$$

$$C = 4.210^{4} \times \frac{100}{100}$$

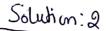
$$C = 424.2 \text{ MF}$$

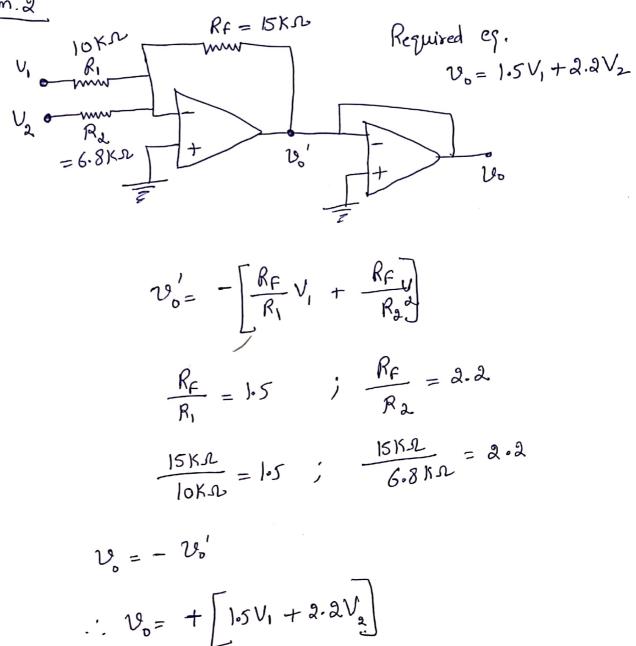
$$C_{1} = C_{2} = 330 \text{ MF} \text{ and loom f Connected in parallel}$$

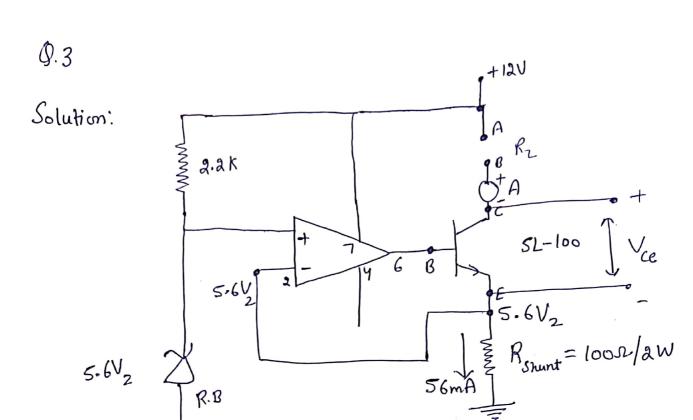
Diode 1N4007 -> Correct It can pass current supto 1A.

and PIV rating Looo Volts.

Secondary Vollye = 15/2 = 21V So vallye rating of Capacitor should be more than 210







$f_{01} V_{2} = 5.6 V_{2}$		
R _L	Vce drop	Load (IL)
D R _L =0	Ve = Vcc - Vshant	56mA
2	= 12 - 5.6	
	V _{(e} = 6.4V	
2 RL= 10sh	Vce = Vcc - Vshint - Ich	56mA
	= 12-5-6 -56 x 18	
	= 12-5.6 - 0.56	
O 0	= 5.84V	
3) R _{L=} 47,s	Vce = 12-5.6-56 x47	56mA
	= 12-5-6 - 2-632	
(4) RL= 682	= 3.768 V	-(A
(4) 1122 0002	$V_{ce} = 12 - 5.6 - \frac{56 \times 68}{1000}$	56mA
	= 12-5.6 - 3.808	
9) PL= 822	= 2.592V	^
<u> </u>	$V_{ce} = 12 - 5.6 - \frac{56}{1000} \times 82$ $= 12 - 5.6 - 4.592$	56 mA
	= 12-5-6-4.592 \ = 1.808V	

(a)
$$R_{L} = 100 \Omega$$
 $V_{C} = 12 - 5 \cdot 6 - \frac{56}{1000} \times 1000$
 $V_{C} = 12 - 5 \cdot 6 - 5 \cdot 6$
 $V_{C} = 0.8V$
 $V_{C} = 12 - 5 \cdot 6 - \frac{56}{1000} \times 100$
 $V_{C} = 12 - 5 \cdot 6 - \frac{56}{1000} \times 100$
 $V_{C} = -2V$

So, this Constant Circuit will provide Constant Current of 56 mA subto R= 10002. After, this, for higher Values of Load Resister, Base current has no Control over collector current as transister is in Control over collector current as transister is in Saturation Now. Here Load Resister Controls Load Current No.