$$R_L = 100\Omega$$
  
 $f = 50Hz$ 

$$C = 470UF$$

Efficiency 
$$\eta = PDC/PAC \Rightarrow (I^2_{DC} * R_L) / [(Irms)^2 * (R_L + R_F + RS)]$$

Where 
$$I_{ress} = I_M/\sqrt{2}$$
 and  $I_M = V_M/(R_L + R_F + R_S)$   
Efficiency =  $\eta \approx (Vodc)^2/(Vi rms)^2$ 

**Regulation** % Regulation = 
$$\frac{V_{NL} - V_{PL}}{V_{PL}} \times 100$$

Note: repeat the same procedure of HWR for calculating Regulation .

#### PROCEDURE:

- Connections are made as shown in the circuit diagram
- 2. Switch on the AC power supply
- 3. Observe the wave form on CRO across the load resistor and measure the o/p amplitude and frequency.
- 4. Note down RL, IDC, VODC, Vinac, Voac in the tabular column for different load resistances.
- Calculate the ripple and efficiency and regulation for each load resistance.
- Repeat the above procedure with filter capacitor.

#### TABULAR COLUMN:

SI. No.	RL	Ipc	Vo (oc)	V <sub>IN</sub>	Vo (AC)	Ripple	Efficiency	Regulation

(Without filter) Ripple = 
$$r_{theoretical} = 0.48$$

(With Filter) 
$$r_{theoretical} = 1/(4\sqrt{3} \text{ f C R}_L) = 0.06 \text{ for C} = 470 \mu\text{F}, \quad r_{practical} = _____$$

Efficiency = 
$$\eta_{\text{theorisical}} = 81.2\%$$
  $\eta_{\text{practical}} \approx (\text{Vodc})^2/(\text{Vi rms})^2$ 

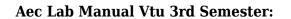
Regulation = % Regulation = 
$$\frac{V_{NL} - V_{PL}}{V_{PL}} \times 100$$

Where V<sub>N</sub> = no load voltage = voltage across output by removing load resistance.

V<sub>FL</sub> = Full load voltage = Voltage across output with load resistance.

# **Aec Lab Manual Vtu 3rd Semester**

**M Planty** 



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