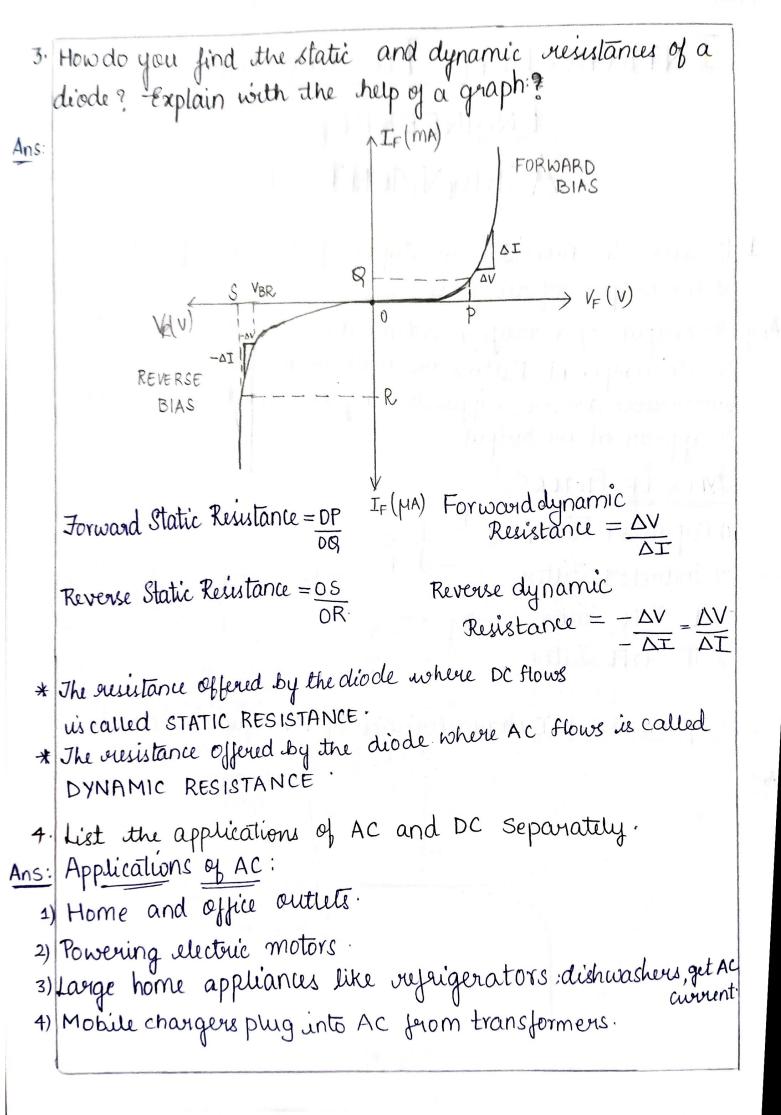
VIR(HA)

BIAS.



Applications of DC:

- 1) ceu Phones: Flash Lights
- 2) Hybrid and electric vehicles.
- 3) Laptops; lifts finally gets DC as adapters convert AC to DC.
- 5: Determine the values of Ic and IE for the transistor circuit of B=200 and IB=0.125 mA.

 $I_B = 0.125 \,\mathrm{mA}$

$$\beta = 200$$

Ans:

$$\beta = \frac{I_c}{I_B}$$

$$I_c = \beta \cdot I_B$$

$$=200 \times 0.125 \text{ m}$$

$$=12.5\times10^{-3}\times2$$

$$= 25.0 \times 10^{-3}$$

$$I_c = 25 \text{ mA}$$

IE = Ic + IB

= 25 mA + 0.125 mA

$$I_{E} = 25 \cdot 125 \, \text{MA}$$