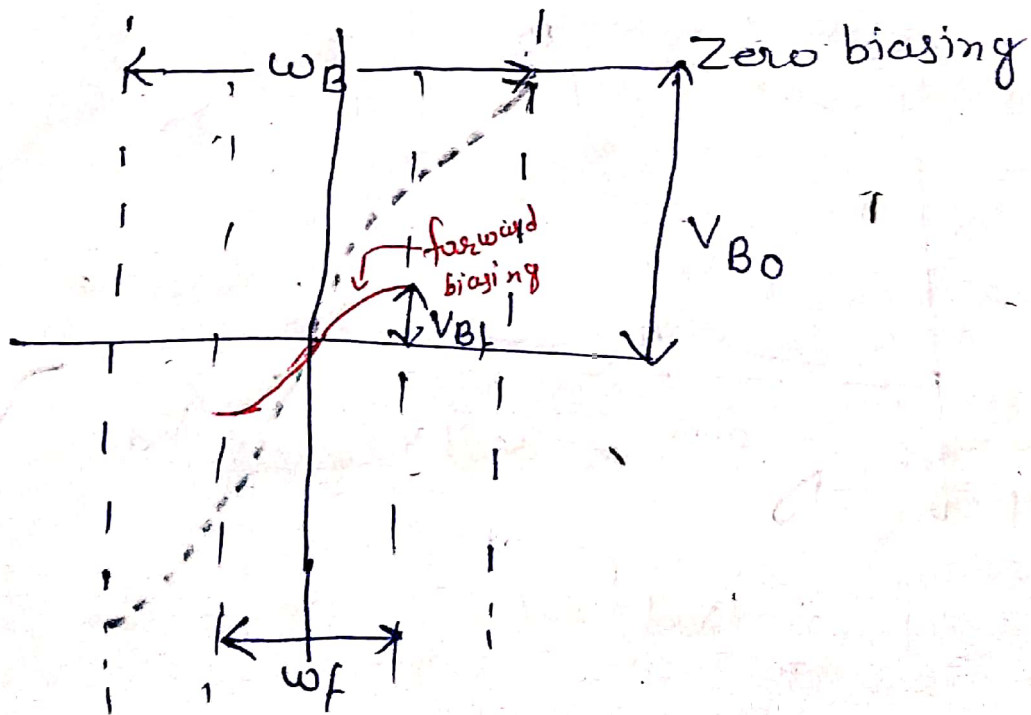
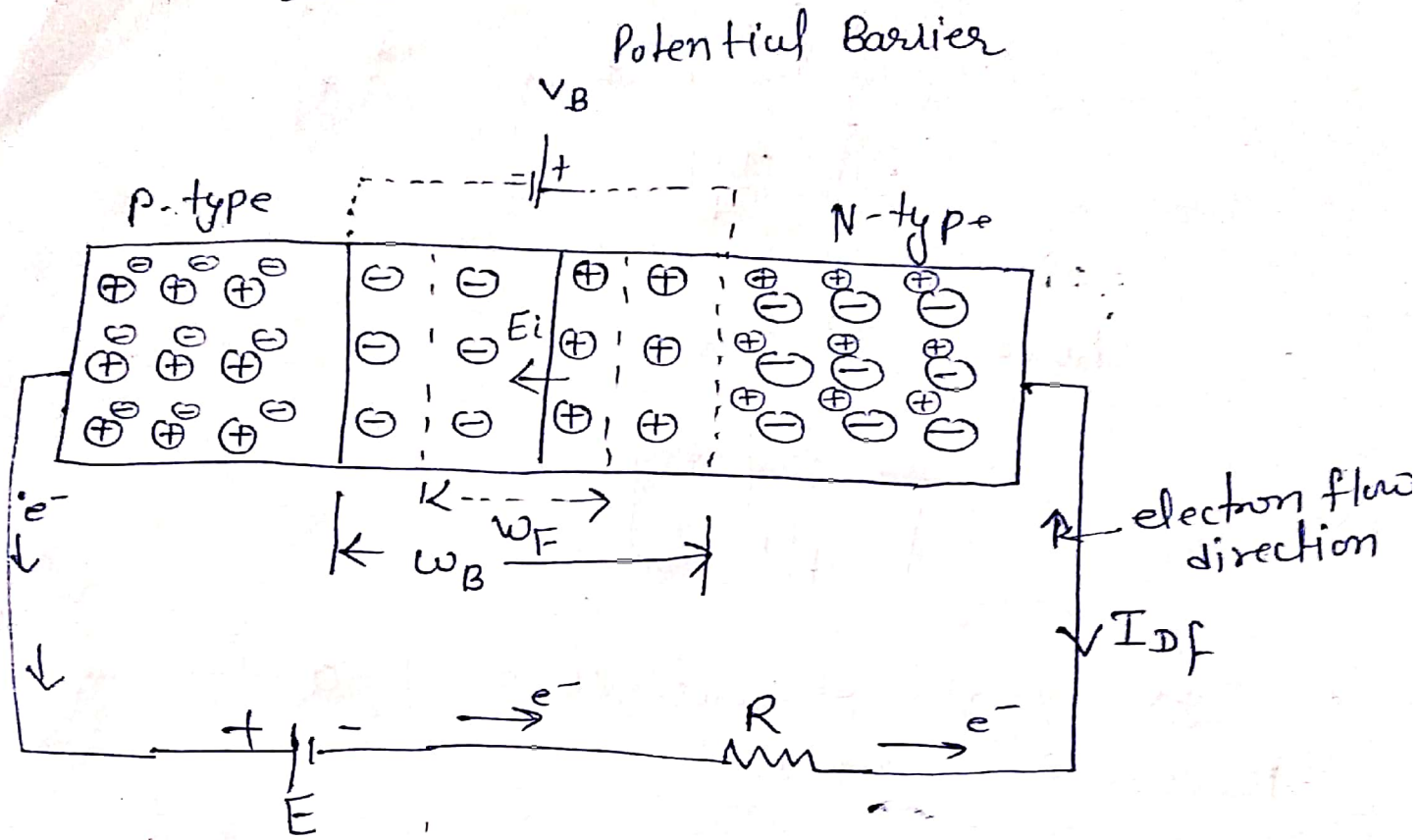
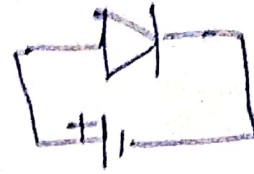
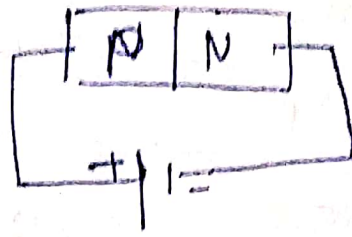


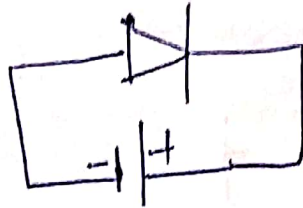
Forward biasing  $\Rightarrow$



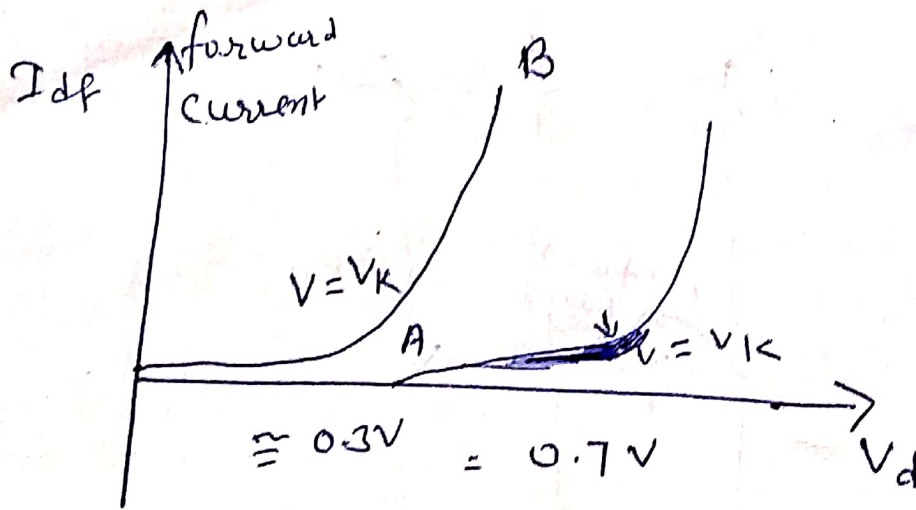
Forward biasing.



Reverse biasing.



voltage current characteristics of a forward  
Base Pn Junction



$V_K = k n e^{\epsilon}$  voltage.

Stage (i)  $E < V_B$

(ii)  $E > V_B$