

VCE =0'

# All the maj. corriers of E'collecter by B'. There is no change in current due to E: b/w B'& E' in case (i) & case (ii)

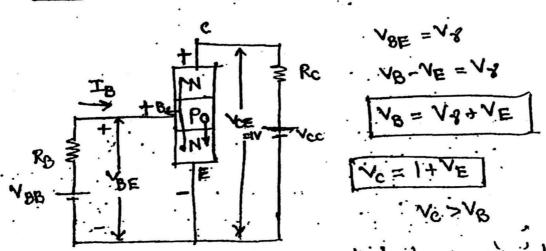
\*The no. of hotes collected by the E' from the Base I .. The hole current blu B'+ E = I

\* To maintain IB as const. increases the VBE value.

i.e to get a particular value of IB the req. value of

VBE is More in this case compared to case (i).

Case (iii) when VOE +0 Let VOE = 1V.



The no. of E's collected by B' From E'V

The ecurrent blu B'4 E'V

The no. of holes collected by E from BT.

The hole current blu B'fE'T

The resultant current B'fE V, IBV

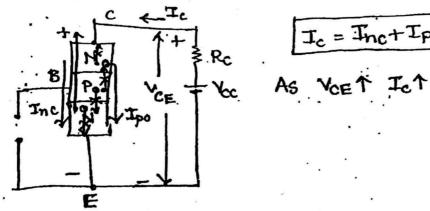
To maintain IB as constant TVBE i.e to get a

Particular value of JB the required value of VBE is more in this case compared to case (ii).

output characteristics:-

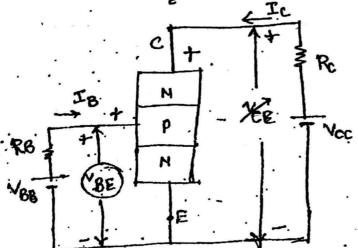
Case (1): - when IB=0

> B & E terminals are O.C



$$I_c = I_{nc} + I_{po}$$

case (ii): when IB +0 Let IB=5UA. JE must be F.B.



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VB = N+VE.

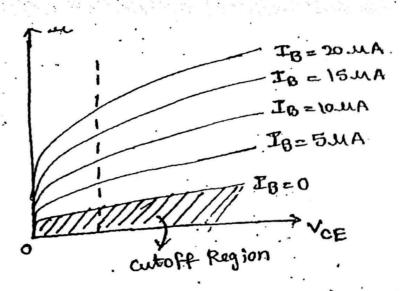
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(1) when YCE < VBE => IC-F-B

-> saturation Region.

(ii) when YCE > VBE => JC > R.B

-> Active Region.



The common collector characteristics are similar to
Common emitter characteristics: In 1/p characteristics
VOE replaced by VoB. In 0/p characteristics Ic replaced
by IE.

\* The phase shift blue 1/p 4 0/p for