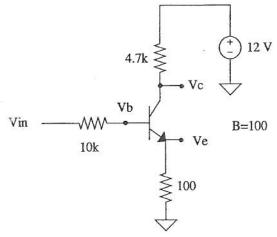
12. For the schematic below, a set of conditions are described. For each given condition, circle the

correct region of operation.



$V_E = 0V$	Off	Saturated	Active Fwd
$I_B = 0$ , $I_C = \beta I_B$	Off	Saturated	Active Fwd
$I_B = 10uA, I_E = 1.01mA$	Off	Saturated	Active Fwd
$V_{BE} = -1V$	Off	Saturated	Active Fwd
$V_E = 0.1V$	Off	Saturated	Active Fwd
VCE =0 (throw out)	Off	Saturated	Active Fwd
$I_E = 2mA, V_C = 9.4V$	Off	Saturated	Active Fwd
$I_E \neq (\beta + 1) * I_B, I_B = 10 \text{mA}$	Off	Saturated	Active Fwd
$V_c=12$	Off	Saturated	Active Fwd
$V_{\rm C} = 1$ , $I_{\rm E} = 8 {\rm mA}$	Off	Saturated)	Active Fwd