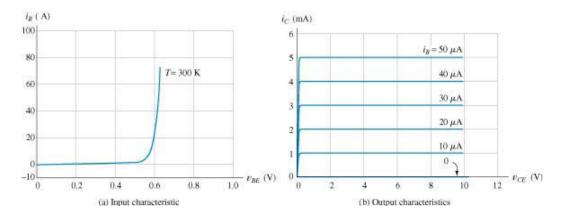
## <u>Tutorial 8 Bipolar junction transistor</u> (Basic concept)

## **Question 1**

A BJT has  $I_C$ =1 mA and  $I_B$ =10 uA. What are  $I_E$ ,  $\beta_F$  and  $\alpha_F$ ?

## **Question 2**

Using Device Curves of a bipolar junction transistor to determine its  $\alpha$  and  $\beta$ .



## **Question 3**

Compute transistor parameters:  $I_B$ ,  $I_C$ ,  $V_{BE}$ ,  $V_{CE}$  (Si BJT with  $\beta = 100$ ).

