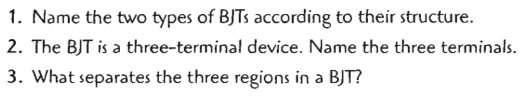
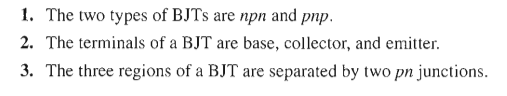
**6,7,8 BJT**

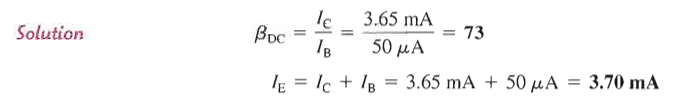


Ans. /



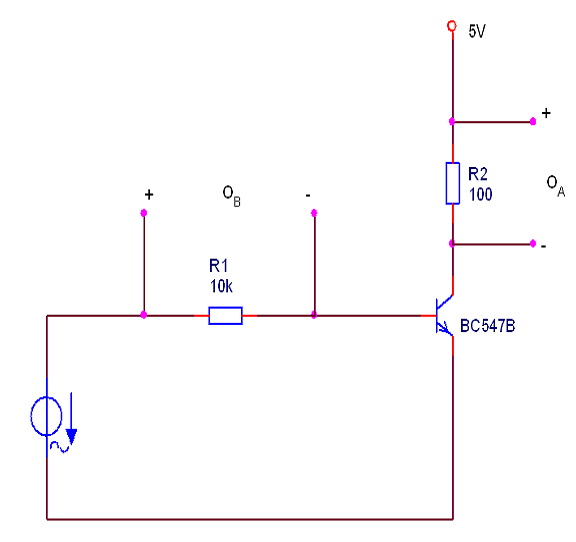
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**----------------------------------------**

**4- Draw a circuit used to record the control characteristics of npn BJT.**



**5- Draw the control ch/s of BJT common emitter**

**6- Why is the current amplification almost the same even though you have changed the collector resistance?**

1. **The current amplification is constant due to the fact that the supply voltage has remained the same.**
2. **The current amplification is essentially a transistor specific value and has nothing to do with the circuit.**
3. **It is the series resistance at the base of the transistor that determines the current amplification and thus did not change.**

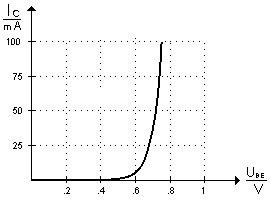
**7- Draw a circuit used to record the input characteristics of npn BJT.**



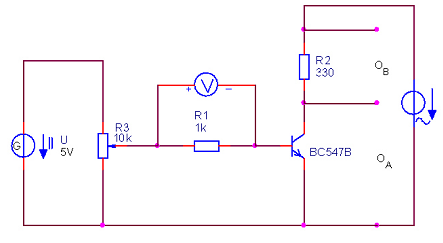
**8- Which of the following statements about the transistor's input characteristic is correct?**

1. **The characteristic corresponds to that of a resistor.**
2. **The characteristic corresponds to that of a diode.**
3. **The current through the base of the transistor initially increases very weakly and then abruptly.**
4. **The voltage at the base is proportional to the current flowing through the resistor.**
5. **The current flowing through the resistor is proportional to the voltage across the resistor.**

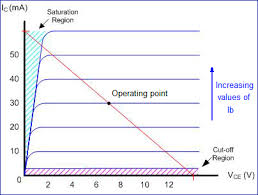
**9- Draw the input characteristics of BJT common emitter, what is look like ?**

** Like si-diode ch/s.**

**10- Draw a circuit used to record the output characteristics of npn BJT.**



**11- Draw the output characteristics of npn BJT.**

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**12 - What is the significance of the typical bend in the output characteristic?**

1. **The oscilloscope cannot display any higher values on the y-axis.**
2. **The preset base current is limited by the transistor's constant current amplification.**
3. **The collector resistance limits the current flowing through the transistor.**