

Draw the transfer curve for circuit shown in Fig. 1. Assume diode as ideal one.

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UNIT - II

- 2 (a) Explain the significance of current gains alpha and beta in a transistor using various current components.

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- (b) Deduce the expression for A_v , A_i , R_i and R_o in Common Emitter (CE) BJT Amplifier in terms of h-parameters.

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OR

- 2 (a) What does thermal stability mean? Derive the condition for thermal stability.

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- (b) Find out the Q-point values of given circuit in Fig. 2 below :

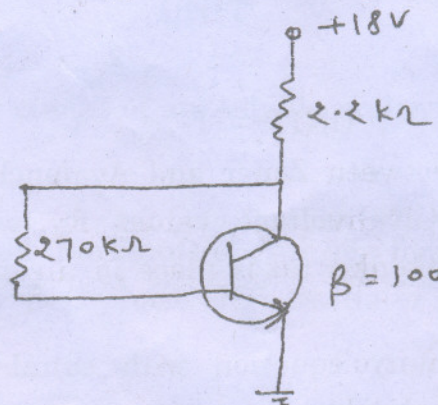


Fig. 2

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UNIT - III

- 3 (a) Draw neat circuit diagram of two stage RC coupled amplifier using BJT. Draw the frequency response and explain it briefly.

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- (b) Explain the working of FET as a voltage variable resistor and give its applications.

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OR

