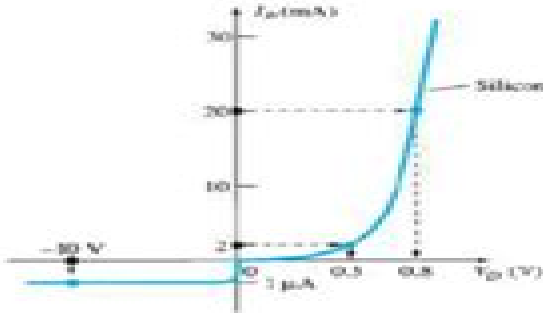



**1<sup>st</sup> SEMESTER EXAMINATION, 2022 – 23**  
**First Year, B. Tech. – Common to All Branch**  
**BASIC ELECTRONICS ENGINEERING**

Duration: 3:00 hrs

Max Marks: 100

*Note: - Attempt all questions. All Questions carry equal marks. In case of any ambiguity or missing data, the same may be assumed and state the assumption made in the answer.*

Q 1.	<p>Answer any four parts of the following.</p> <p>a) Describe the difference between <math>n</math>-type and <math>p</math>-type semiconductor materials. Define an intrinsic material, a negative temperature coefficient, and covalent bonding.</p> <p>b) Compare P-N junction diode and zener diode on the basis of:          (i) Symbol (ii) Direction of conduction (iii) Reverse breakdown (iv) Application (v) Resistance in reverse biased condition</p> <p>c) What is an LED? Explain its working principle. Write the advantages, and application of LED.</p> <p>d) Draw VI characteristics of PN junction diode and explain it.</p> <p>e) Determine the dc resistance levels for the diode of Fig. 1 at          (i) <math>I_D = 2</math> mA (low level)          (ii) <math>I_D = 20</math> mA (high level)          (iii) <math>V_D = -10</math> V (reverse-biased)</p>	5x4=20
	 <p style="text-align: center;">Fig. 1</p>	
	<p>f) For the series diode configuration of Fig. 2, determine <math>V_D</math>, <math>V_R</math>, and <math>I_D</math>.</p> <div style="text-align: center;">  </div> <p style="text-align: center;">Fig. 2</p>	

# Basic Electronics Engineering 1sem

**M.S. Banad**



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