

1st 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 n-type and p-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) $I_D = 2$ mA (low level) (ii) $I_D = 20$ mA (high level) (iii) $V_D = -10$ 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 V_D, V_R, and I_D.</p> <div style="text-align: center;">  <p style="text-align: center;">Fig. 2</p> </div>	

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