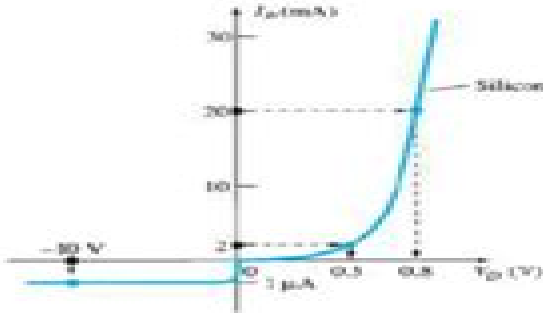



1st SEMESTER EXAMINATION, 2022 – 23
First Year, B. Tech. – Common to All Branch
BASIC ELECTRONICS ENGINEERING

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> | |
| |  <p style="text-align: center;">Fig. 2</p> | |

Basic Electronics Engineering 1sem

Camilla Rothe



Basic Electronics Engineering 1sem :

Basic Electronics Engineering 1sem Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Basic Electronics Engineering 1sem** ," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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