

## UNIT -1

1. Illustrate in detail about the operation and characteristics of Zener Diode.
2. Explain the operation of PN junction diode and its characteristics with necessary diagram.
3. Brief about Diffusion and Transition capacitance.
4. Summaries in detail about Half wave and Full wave Rectifiers with neat diagram.
5. Explain in detail about voltage regulators.
6. Illustrate in detail about filters, clipper and clamper with necessary waveforms and diagram
7. Explain about LED with neat diagram.
8. Brief about Laser diode and its advantages.
9. With neat diagram explain about Photodiode
10. Explain the operation of PV Cells and its application