



ANURAG GROUP OF INSTITUTIONS
AUTONOMOUS
SCHOOL OF ENGINEERING
DEPT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Assignment Question Paper-I

Subject – EDC (for I Year ECE)

1. Derive the equation for the Current flowing through PN Junction Diode
2. Explain the operation of PN Diode in Forward and Reverse Bias conditions
3. Explain the need of biasing and explain the effect of temperature on VI Characteristics
4. Explain the operation of Tunnel diode with the help of Energy Band diagram and draw the V-I Characteristics.
5. Explain the operation of Half wave rectifier and derive the expression for Average ,RMS currents and Voltages, Ripple factor, % Efficiency and % Regulation.
6. Explain the operation of Fullwave Rectifier with Capacitor filter and derive the expression for Ripple factor.