

## IES COLLEGE OF TECHNOLOGY, BHOPAL

ECM (Diploma EC-301)

Assignment -1

Date of Assign 16/7/2014

Date of Submission: 24/07/14

Q.1	Give energy band diagram for conductors, insulators and semiconductors	
Q.2	Explain the atomic structure and band structure of solid.	
Q.3	Discuss about conductivity and resistivity of different types of materials.	
Q.4	Explain different types of fuses and their applications.	
Q.5	Explain different types of cables and their applications.	

## IES COLLEGE OF TECHNOLOGY, BHOPAL

EDC (Diploma EC-302)

Assignment -1

Date of Assign: 16/7/2014

Date of Submission: 24/7/2014

Q.1	Give the ideal and practical diode equivalent circuit. (+Numerical)	
Q.2	Explain clipping and clamping circuits(Numerical on clamper)	
Q.3	Explain briefly about half wave and full wave rectifier circuit.	
Q.4	What are junction capacitance and diffusion capacitance? What is varactor diode?	
Q.5	Short notes on (i) Tunnel diode (ii) zener diode (iii) LED (iv) schottkey diode	

## IES COLLEGE OF TECHNOLOGY, BHOPAL

Diploma (Third Semester) Assignment-I

(Branch- EC) 303

Date of issue: 16/7/2014

Date of submission: 24/7/2014

1	Define : Energy, Electricity and SI units	Jan 2012
2	Explain following terms : (a) current and Voltage (b) potential difference	June 2012
3	Describe Ohm's law of constant proportionality	June 2009
4	Explain the dependence of resistance upon temperature	June 2012
5	Describe series and parallel combination of resistance, equivalent resistance	June 2012

