UNIT-1

SEMICONDUCTIR BASICS

1.Explain with a neat sketch structure of atom

2.Differentiate between conductors, semiconductors, insulators.

3.Explain about N-type and P-type semiconductors.

4.What is mean by P-N junction diode? Explain V-I characteristics of P-N junction diode.

5.Explain with a neat sketch about(i) Haif wave (ii)Full wave-Center tapped,Bridge rectifiers.

UNIT-2

SPECIAL PUPOSE DIODES

1.Explain about Zener diode as regulator by considering (i)Vi ,Rl fixed (ii) Vi is variable Rl is fixed (iii)Vi is fixed,Rl is variable (iv)Both Vi and Rl are variable

2.Explain about varactor diode, optical diode.

UNIT-3

BIPOLAR JUNCTION TRANSISTORS

1.Explain about the operation NPN and PNP transistors.

2.Explain how a transistor acts as an amplifier.