

1. Draw the V-I characteristics of Zener diode.
2. Verify Thevenin's theorem.
3. Draw the V-I characteristics of P-n junction diode.
4. Verify Zener diode as a voltage regulator.
5. Draw the characteristics of a Transistor in CE configuration.
6. Determine the energy gap of intrinsic semi-conductor.
7. Draw the block diagram of CRT. Draw the pattern observed on the screen of the cathode ray oscilloscope when the phase difference between two signals of same frequency is (i) 45° , (ii) 180° .
8. What is Zener breakdown and what is its cause?
9. What are LED, solar cell, and photodiode.
10. Why is capacitor filter preferred over inductor filter.
11. Why BJT is called current controlled device?
12. Why is the width of base region of a transistor is very small.