

Practical List

Exp. 1) To determine resistance per cm of a given wire by plotting a graph of potential difference vs current.

Exp. 2) To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material.

Exp. 3) To verify the laws of combination (Series or parallel) of resistances using metre bridge.

Exp. 4) To determine the internal resistance of given primary cell using potentiometer.

Exp. 5) To compare the EMF of 2 cells using potentiometer.

Exp. 6) To determine the resistance of a galvanometer by half deflection method.

Exp. 7) To find the frequency of the AC mains with the Sonometer.

Exp. 8) To find the value of V_1 for different values of U in case of a concave mirror and to find the focal length.

Exp. 9) To find the focal length of a convex lens by plotting graph between U and V .

Exp. 10) To determine the angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.

Exp. 11) To draw the $I-V$ characteristic curve of a P N Junction diode forward bias and reverse bias.

Exp. 12) To draw the characteristics of a common ammeter npn or pnp transistor and to find out the values of current and voltage gains.

Practical List

Exp. 14) TBD

Exp. 15) TBD

Activities

- 1) To assemble a household circuit, comprising 3 bulbs, 3 on/off switches, a fuse and power source.
- 2) To study the variation in potential drop with length of wire for a steady current.
- 3) To identify a diode, LED, transistor, IC, resistor and a capacitor from mixed collection of such items.
- 4) To observe polarisation of light using two polaroids.
- 5) To observe de-fraction of light due to a thin slit.