

LABORATORY MANUAL

Class XII

PHYSICS



Vk Publications Lab Manual Class 12 Physics

Er. Meera Goyal



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SECTION A

EXPERIMENTS

1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current

2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material

3 To verify the laws of combination Series Parallel of resistance using ammeter bridge

4 To compare the e.m.f. of two given primary cells using potentiometer

5 To determine the internal resistance of a given primary cell e.g. Leclanche cell using potentiometer

6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit

7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same

7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same

8 To find the frequency of AC mains with a sonometer and horse shoe magnet

SECTION B

EXPERIMENTS

1 To find the value of v for different values of u in case of a concave mirror and to find the focal length

2 To find the focal length of a convex lens by plotting graph between u and v or $1/u$ and $1/v$

3 To find the focal length of a convex mirror using a convex lens

4 To find the focal length of a concave lens using a convex lens

5 To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation

6 To determine refractive index of a glass slab using a travelling microscope

7 To find the refractive index of a liquid by using a convex lens and a plane

mirror 8 To draw I V characteristics curve of a p n junction in forward bias and reverse bias 9 To draw the characteristics curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter n p n or p n p transistor and to find out the values of current and voltage gains

SECTION A ACTIVITIES

- 1 To measure the resistance and impedance of an inductor with or without iron core
- 2 To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter
- 3 To assemble a household circuit comprising of three bulbs three on off switches a fuse and a power source
- 4 To assemble the components of a given electrical circuit
- 5 To study the variation in potential drop with length of a wire for a steady current
- 6 To draw the diagram of a given open circuit comprising atleast a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram

SECTION B ACTIVITIES

- 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor
- 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items
- 3 Use a multimeter to i identify the transistor ii distinguish between n p n and p n p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components e g diode transistor or IC is in working order
- 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- 5 To observe polarisation of light using two polaroids
- 6 To observe diffraction of light due to a thin slit
- 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using candle and a screen for different distance of the candle from the lens mirror
- 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

SUGGESTED INVESTIGATORY PROJECT

- 1 To Study Various factors on which the Internal Resistance EMF of a cell depends
- 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R
- 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle
- 4 To design an appropriate logic gate combination for a given truth table
- 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer
- 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids
- 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law
- 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a c source of adjustable frequency
- 9 To study the earth's magnetic field using a tangent galvanometer

APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables *Whitaker's Five-year Cumulative Book List ,1945*

Sections B 1 Experiments 2 Activities 3 Suggested Investigatory 4 Project Work

World Who's who in Science ,1968

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