

As per HCF 2023

Saraswati
Lab Manual
PHYSICS



XII

- Detailed explanations of each experiment.
- Viva voce questions with answers.
- Diagrams for concept clarity.
- Activities on day-to-day physics and real-life examples.



Ncert Saraswati Lab Manual Physics Class 12

Dr R K Gupta



Ncert Saraswati Lab Manual Physics Class 12:

Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24

SECTION A EXPERIMENTS

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- 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

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- 9 To draw the characteristics curve of a zener diode and to determine its reverse break down voltage
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- 2 To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter
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- 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
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 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
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 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 *CBSE Laboratory Manual Physics Class 12th* Er. Akash Shukla, 2022-12-13 Once Owen Chamberlain said The
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SECTION A EXPERIMENTS 1 Measurement of Length 1 To measure the diameter of a small spherical cylindrical body by using a vernier callipers 2 To measure the dimensions of a given regular body of known mass using vernier callipers and hence find its density 3 To measure the internal diameter and depth of a given cylindrical vessel say calorimeter beaker by using vernier callipers and hence find its internal volume i e capacity Viva voce 2 Screw Gauge Micrometer 4 To determine the diameter of a given wire using a screw gauge and find its volume 5 To find the thickness of a given sheet with the help of screw gauge 6 To measure the volume of an irregular lamina by using a screw gauge Viva voce 3 Spherometer 7 To measure the radius of curvature of a given spherical surface convex lens by using a spherometer Viva voce 4 Mass and Weight 8 To determine the mass of two different objects using a beam balance Viva voce 5 Parallelogram Law of Vectors 9 To find the weight of a given body using parallelogram law of vectors Viva voce 6 Simple Pendulum Measurement of Time 10 Using a simple pendulum plot L T and L T² graphs Hence find the effective length of a second s pendulum using appropriate graphs Viva voce 7 Friction 11 To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface Viva voce 8 Motion of a Body Along an Inclined Plane 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and sin Viva voce SECTION B EXPERIMENTS 1 Elasticity 1 To determine the Young s modulus of elasticity of the material of the wire using Searle s apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle s Gas

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Physics-TB-09 Dr M K Gandhi, ICSE Lab Manual Physics TB 09 *LK-Science-HB-09-R* R Rangarajan, Neena Sinha, Rajesh Kumar, LK Science HB 09 R ICSE-Lab Manual Physics-TB-10 Dr M K Gandhi, ICSE Lab Manual Physics TB 10

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