

## Apc Physics Practical Manual Ci Xii

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\* It is strictly according to the latest CBSE guidelines

• It contains all NCERT Lab Manual Questions, fully solved

• It contains more than sufficient viva voce questions for practice

• It also includes brief description of each activity/experiment, which will help students in practicing and completing their lab work. \*

Laboratory experiences as a part of most U.S. high school science curricula have been taken for granted for decades, but they have rarely been carefully examined. What do they contribute to science learning? What can they contribute to science learning? What is the current status of labs in our nation's high schools as a context for learning science? This book looks at a range of questions about how laboratory experiences fit into U.S. high schools: What is effective laboratory teaching? What does research tell us about learning in high school science labs? How should student learning in laboratory experiences be assessed? Do all student have access to laboratory experiences? What changes need to be made to improve laboratory experiences for high school students? How can school organization contribute to effective laboratory teaching? With increased attention to the U.S. education system and student outcomes, no part of the high school curriculum should escape scrutiny. This timely book investigates factors that influence a high school laboratory experience, looking closely at what currently takes place and what the goals of those experiences are and should be. Science educators, school administrators, policy makers, and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished.

In accordance to the new syllabus of Central Board of Secondary Education(CBSE), New Delhi and other State Boards following CBSE Curriculum.

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

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The College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

This text blends traditional introductory physics topics with an emphasis on human applications and an expanded coverage of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

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