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# PHYSICS

## PRACTICAL MANUAL

**Hands on Experiments in Physics**

*Strictly According to the Latest Syllabus of  
Physics Prescribed by the Central Board of Secondary Education*



# Cbse Class 12 Physics Practical Manual

**KJ Lindholm-Leary**



## **Cbse Class 12 Physics Practical Manual:**

**EduGorilla's CBSE Class 12th Physics Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination** EduGorilla Prep Experts, [Physics Lab Manual Class XII | According to the latest CBSE syllabus and other State Boards following the CBSE curriculum](#) Mr. Rohit Manglik, Mr. Pradeep Dwivedi, 2022-08-01 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable **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**

- 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

**Practical/Laboratory Manual**

**Physics Class - 12** Er. Meera Goyal, 2023-04-30 Sections A 1 Experiments 2 Activities Sections B 1 Experiments 2 Activities 3 Suggested Investigatory 4 Project Work

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**-by Er. Meera Goyal (SBPD Publications)** Er. Meera Goyal,2021-07-03 In accordance to the new syllabus of Central Board of Secondary Education CBSE New Delhi and other State Boards following CBSE Curriculum Indian Book Industry ,1998

**Core Laboratory Manual of Physics for Class XII** Anil Sharma,Prashant Sharma,2020-04-16 Goyal Brothers Prakashan *Science Reporter* ,1998 **Publisher's Monthly** ,1995 EduGorilla's CBSE Class 11th Physics Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination ,2024-01-01 Need an informative and well illustrate Lab Manual CBSE Class 11th Physics Lab Manual is here for you The Lab Manual provides comprehensive steps for guiding students through each experiment Rigorously researched content prepared by a team of educators writers editors and proofreaders CBSE Class XI Physics Lab Manual has properly labeled high diagrams and graphs A separate section on Viva Questions has been included to aid students in their Viva examination The Lab Manual explains the complex topics through detailed illustrations and lucid language making them simple to grasp Worksheets have been provided in CBSE Class 11th Physics Lab Manual for doing rough work **Physics Lab Manual**

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## **Table of Contents Cbse Class 12 Physics Practical Manual**

1. Understanding the eBook Cbse Class 12 Physics Practical Manual
  - The Rise of Digital Reading Cbse Class 12 Physics Practical Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Cbse Class 12 Physics Practical Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Cbse Class 12 Physics Practical Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cbse Class 12 Physics Practical Manual
  - Personalized Recommendations
  - Cbse Class 12 Physics Practical Manual User Reviews and Ratings
  - Cbse Class 12 Physics Practical Manual and Bestseller Lists
5. Accessing Cbse Class 12 Physics Practical Manual Free and Paid eBooks
  - Cbse Class 12 Physics Practical Manual Public Domain eBooks
  - Cbse Class 12 Physics Practical Manual eBook Subscription Services
  - Cbse Class 12 Physics Practical Manual Budget-Friendly Options

6. Navigating Cbse Class 12 Physics Practical Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Cbse Class 12 Physics Practical Manual Compatibility with Devices
  - Cbse Class 12 Physics Practical Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cbse Class 12 Physics Practical Manual
  - Highlighting and Note-Taking Cbse Class 12 Physics Practical Manual
  - Interactive Elements Cbse Class 12 Physics Practical Manual
8. Staying Engaged with Cbse Class 12 Physics Practical Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cbse Class 12 Physics Practical Manual
9. Balancing eBooks and Physical Books Cbse Class 12 Physics Practical Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cbse Class 12 Physics Practical Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Cbse Class 12 Physics Practical Manual
  - Setting Reading Goals Cbse Class 12 Physics Practical Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cbse Class 12 Physics Practical Manual
  - Fact-Checking eBook Content of Cbse Class 12 Physics Practical Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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