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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



# Class 12 Cbse Physics Practical Manual

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

### **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 a meter 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 function 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  
incomdescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a in condescent  
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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 turms in secondary coils and primary coils of a self designed transformer 6 To Investigate the  
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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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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   **Physics Lab Manual Class**

**XII According to the Latest CBSE Syllabus and Other State Boards Following the CBSE Curriculum** Edugorilla Prep  
Experts,2022-08-18 The all new class 12 physics Lab Manual by Mr Pradeep Dwivedi is strictly based on the curriculum  
prescribed by CBSE State Boards of Chhattisgarh Haryana Bihar Jharkhand Kerala Mizoram Meghalaya and other state  
boards All the experiments in this Science Lab Manual have been given in a simple lucid and interactive manner The theory  
given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact  
knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of  
related experiments All the lab based experiments have well labeled diagrams which clearly demonstrate the details of the  
apparatus that are used the correct way of handling laboratory apparatus and perform the experiments methodically The  
basic purpose of this Lab Manual is to provide the students with appropriate guidance so that they can easily understand  
carry out and document the experiments in the Science Laboratory Some demonstration experiments are also included to  
illustrate principles and laws of physics Illustrative diagrams have been used at the places where it is required The Lab  
Manual comes with practical lessons followed by lab experiments after each chapter projects and attached Notebook for  
jotting down all the essential information The aim of this Science Lab Manual is to help class 12 students to prepare and  
understand the complex physics concepts through experimental approach by utilizing pedagogically enhanced content of the

Lab Manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities

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**CBSE Laboratory Manual Physics Class 12th** Er. Akash Shukla,2022-12-13

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Core Laboratory Manual of Physics for Class XII Anil Sharma,Prashant Sharma,2020-04-16 Goyal Brothers Prakashan

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*Comprehensive Practical Physics (Abhilekhan) XII* J. N. Jaiswal,Raman Chandra,2008-05-01      **Core Laboratory**  
**Manual of Physics for Class XI** Anil Sharma,Prashant Sharma,Goyal Brothers Prakashan,2020-04-16 Goyal Brothers Prakashan

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