

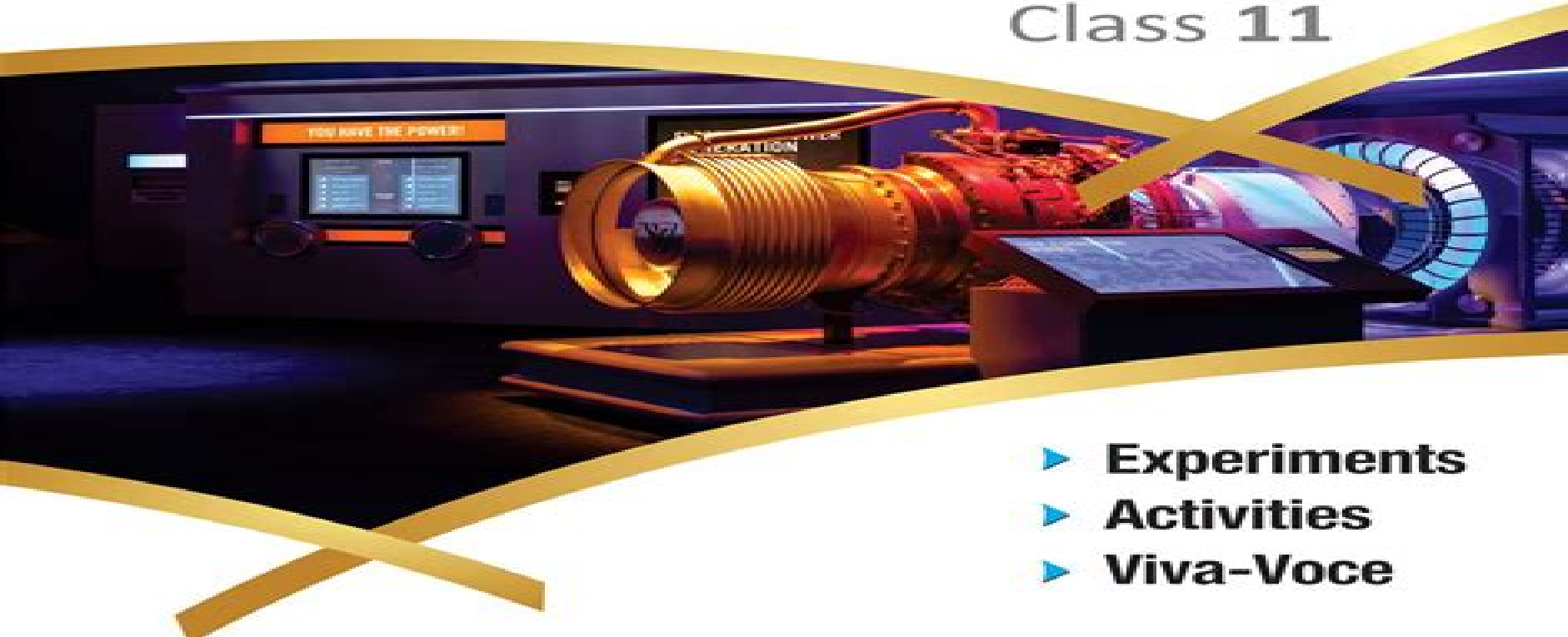


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# **Lab Manual**

# **PHYSICS**

Class 11



- ▶ **Experiments**
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# Cbse Ncert Physics Lab Manual 11

**Oswaal Editorial Board**



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This set of solved question papers is designed to enrich students with ample and exam-oriented practice so that they can clear CDS Examination with extraordinary results. Not one or two but 14 Previous Year Solved Question Papers 2018 to 2024 II focussed on polishing every topic. Thorough studying of this book will boost my confidence and familiarise me with exam patterns. Some benefits of studying from Oswaal CDS check 14 Previous year solved question papers 100% updated with Fully Solved Paper of September 2024 II Concept Clarity with detailed explanations of 2018 to 2024 I Papers Extensive Practice with 1600 Questions and Two Sample Question Papers Crisp Revision with Mind Maps Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with Previous Years 2024 2019 Trend Analysis empowering students to be 100% exam ready. Our Heartfelt Gratitude Finally we would like to thank our authors editors and reviewers. Special thanks to our students who send us suggestions and constantly help improve our books. To stay true to our motto of Learning Made Simple we constantly strive to present information in ways that are easy to understand as well as remember.

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Oswaal Editorial Board, 2024-09-26

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improve our books To stay true to our motto of Learning Made Simple we constantly strive to present information in ways that are easy to understand as well as remember

**Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal** Dr. J. P. Goel ,Er. Meera Goyal,2020-06-24

**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  $L$   $T^2$  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 Law 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between  $P$  and  $V$  and between  $P$  and  $1/V$  18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To determine the co effective of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva voce 6 Newton s Law of Cooling 6 To study the relationship between temperature of a hot body and time by plotting a cooling curv Viva voce 7 Vibrations of Strings 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva voce 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva voce 8 Vibrations of Air Columns 9 To find the velocity of sound in air at room temperature using a resonance tube by two resonance position Viva voce 9 Specific Heat 10 To determine specific heat of a given solid by the method of mixture 11 To determine the specific heat of a given liquid by method of mixture Viva voce

**SECTION A ACTIVITIES**

1 To make a paper scale of given least count e g 0.2 cm 0.5 cm and use it to measure the length of a given object 2 To determine the mass of a given body using a metre scale and by applying principle of moments Viva voce 3 To plot a

graph for a given set of data using proper choice of scales and error bars Viva voce 4 To measure the force of limiting friction for rolling of a roller on horizontal plane Viva voce 5 To study the variation in the range of a jet of water with angle of projection Viva voce 6 To study the conservation of energy of a ball rolling down on inclined plane using a double inclined plane Viva voce 7 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time Viva voce SECTION B ACTIVITIES 1 To observe the change of the state and plot a cooling curve for molten wax Viva voce 2 To observe and explain the effect of heating on a bimetallic strip Viva voce 3 To note the change in level of liquid in a container on heating and interpret the observations Viva voce 4 To study the effect of detergent in surface tension by observing capillary rise Viva voce 5 To study the factors affecting the rate of loss of heat of a liquid Viva voce 6 To study the effect of load on depression of a suitably clamped meter scale loaded i at its end ii in the middle Viva voce 7 To observe the decrease in pressure with the increase in velocity of the fluid Viva voce APPENDIX Some Important Tables of Physical Constants Log Antilog and other Tables *Core Laboratory Manual of Physics for Class XI* Anil Sharma, Prashant Sharma, Goyal Brothers Prakashan, 2020-04-16 Goyal Brothers Prakashan **Physics : Textbook For Class Xi**, 2007-01-01

**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 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
- 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

CBSE Class 11 Physics Chapter-wise Question Bank - NCERT + Exemplar + Practice Questions with Solutions - 3rd Edition Disha Experts, 2022-10-07 The thoroughly revised and updated 3rd Edition of the book CBSE Class 11 Physics Chapter wise Question Bank NCERT Exemplar Practice Questions with Solutions has been divided into 3 parts Part A provides detailed solutions Question by Question of all the questions exercises provided in the NCERT Textbook Part B provides solutions to the questions in the NCERT Exemplar book Part C provides selected Practice Questions useful for the



Class 11 examination along with detailed solutions These Practice Questions includes all new variety of Questions MCQs Case based AR etc The solutions have been designed in such a manner Step by Step that it would bring 100% Concept Clarity for the student The Book will prove to be a One Stop Question Bank for CBSE Exams *10 in One Study Package for CBSE Physics Class 11 with 3 Sample Papers* Disha Experts,2017-08-29 10 in ONE CBSE Study Package Physics class 11 with 3 Sample Papers is another innovative initiative from Disha Publication This book provides the excellent approach to Master the subject The book has 10 key ingredients that will help you achieve success 1 Chapter Utility Score 2 Exhaustive theory based on the syllabus of NCERT books 3 Concept maps for the bird s eye view of the chapter 4 NCERT Solutions NCERT Exercise Questions 5 VSA SA LA Questions Sufficient Practice Questions divided into VSA SA LA type Numericals are also included wherever required 6 HOTS Exemplar Value Based Questions High Order Thinking Skill Based Moral Value Based and Selective NCERT Exemplar Questions included 7 Chapter Test A 24 marks test of 45 min to assess your preparation in each chapter 8 Important Formulas terms and definitions 9 Full syllabus Sample Papers 3 papers with detailed solutions designed exactly on the latest pattern of CBSE 10 Complete Detailed Solutions of all the exercises **CBSE Laboratory Manual Physics Class 12th** Er. Akash Shukla,2022-12-13 Once Owen Chamberlain said The development of Physics like the development of any science is a continuous one It is a constant effort of NCERT that it puts on its textbooks to promote clearer understanding of concepts in every student As important as theoretical study is practical study is also essential to prove theories into realities The freshly updated edition of LABORATORY MANUAL Physics for class XII has been designed as a complete package to understand all the relevant Physics experiments in a simple lucid and interactive manner Strictly based on CBSE guidelines each experiment includes theory to give deep insights into each concept formula term definition etc Viva Voce questions Precautions Activities Diagrams and Appendices are accumulated to make concepts clearer in accordance with the curriculum Along with the experiments suggested Investigatory Projects will reveal the complete adherence of CBSE curriculum This book serves as a step by step guide for conducting experiments in such a way that students will not need to refer to any other book for explanations of the concepts An all inclusive guidance book for Physics laboratory experiment Coverage of each experiment in a simple and lucid manner Detailed and Step by Step procedure for each experiment Necessary precautions to be followed for the experiment Viva Voce Questions to get an understanding on the experiment Suggested Investigatory Projects of the CBSE curriculum Clearly labeled Diagrams in each experiment Appendices related to some useful data TABLE OF CONTENT General Introduction of Practical Work How to Record an Experiment Experimental Errors Logarithms Basic Trigonometry Study of Graphs Section A Experiments Activities Section B Experiments Activities Suggested Investigatory Projects Appendices Complete Science Laboratory Manual CBSE For Class 10 Education Experts,2019-10

The book delves into Cbse Ncert Physics Lab Manual 11. Cbse Ncert Physics Lab Manual 11 is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Cbse Ncert Physics Lab Manual 11, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Cbse Ncert Physics Lab Manual 11
- Chapter 2: Essential Elements of Cbse Ncert Physics Lab Manual 11
- Chapter 3: Cbse Ncert Physics Lab Manual 11 in Everyday Life
- Chapter 4: Cbse Ncert Physics Lab Manual 11 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Cbse Ncert Physics Lab Manual 11. This chapter will explore what Cbse Ncert Physics Lab Manual 11 is, why Cbse Ncert Physics Lab Manual 11 is vital, and how to effectively learn about Cbse Ncert Physics Lab Manual 11.
3. In chapter 2, the author will delve into the foundational concepts of Cbse Ncert Physics Lab Manual 11. The second chapter will elucidate the essential principles that must be understood to grasp Cbse Ncert Physics Lab Manual 11 in its entirety.
4. In chapter 3, this book will examine the practical applications of Cbse Ncert Physics Lab Manual 11 in daily life. This chapter will showcase real-world examples of how Cbse Ncert Physics Lab Manual 11 can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Cbse Ncert Physics Lab Manual 11 in specific contexts. The fourth chapter will explore how Cbse Ncert Physics Lab Manual 11 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Cbse Ncert Physics Lab Manual 11. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Cbse Ncert Physics Lab Manual 11.

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### **Cbse Ncert Physics Lab Manual 11 Introduction**

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