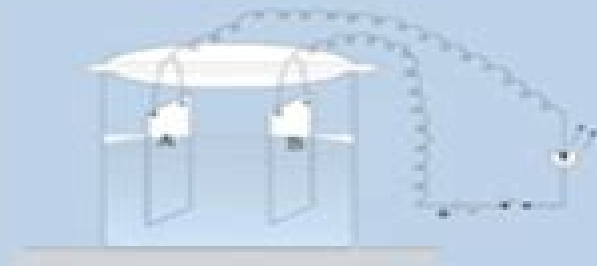


LABORATORY MANUAL

Class XII

PHYSICS



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5 Practice Sets for SAT, MAT & LCT - NTSE Stage 1 Disha Publication, 5 Practice Sets for SAT MAT LCT NTSE Stage 1 contains 5 Practice Sets as per the latest pattern for each of the 3 parts SAT MAT LCT The detailed Solutions are provided for all the sets *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

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

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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
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 - 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
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 - 9 To find the weight of a given body using parallelogram law of vectors Viva voce
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 - 10 Using a simple pendulum plot L vs T and L vs 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
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 - 1 To determine the Young's modulus of elasticity of the material of the wire using Searle's apparatus Viva voce
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 - 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce
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 - 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 $1/V$ Viva voce
- 4 Surface Tension
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 - 6 To study the relationship between temperature of a hot body and time by plotting a cooling curve Viva voce
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- 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

Lab

Manual-Physics-TB-11_E-R1 Dr R K Gupta, Lab Manual Physics TB 11_E R1

Practical/Laboratory Manual Physics Class - XII -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

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

Lab Manual-Physics-TB-12_E-R Dr R K Gupta, Lab Manual Physics TB 12_E R *Physics 2010 and 2110 Laboratory Manual 2011/2012* Boughton, 2011-08-30 **Physics : Textbook For Class Xii**, 2006-01-01 Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel ,Er. Meera Goyal ,2020-06-23

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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 in 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 Chemistry Lab Manual Class XI | Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculum. Edugorilla Prep

Experts, 2022-07-05 Theories are incomplete without experimentation So in order to enhance the practical skills of students the CBSE conducts the practical exams for class 11 chemistry along with theoretical exams to test the scientific aptitude of students CBSE Class 11th chemistry Lab Manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other state board curriculum All the experiments in this 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 Mr Kaushalesh Dwivedi is the author of this complete lab activity book for class 11 chemistry 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 The Lab Manual comes with practical lessons followed by lab experiments after each chapter projects and Notebook for jotting down all the essential information this develops a better understanding about the concept behind each class 11 chemistry theory there is an experiment which brings authentic and easy to retain conclusions through its observations and which is verified on a real time basis The aim of this Science Lab

Manual is to help class 11 students to prepare and understand the complex chemistry 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 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 **Physics and Astronomy Physics 241 Fall 2012 Laboratory Manual** Ellis, 2012-08-09 **Physics Laboratory Manual** Kanthi Kaluarachchi, 2013 *Physics Lab Manual Student Grd 12 2nd Edition* 182238, 2005-02-25 The Student Laboratory Manual provides extensive laboratory exercises and experiments to reinforce concepts and stimulate interest in further studies **Physics Laboratory Manual** Kanthi Kaluarachchi, 2013 **Wave Optics** Ramesh Chandra B.Tech IIT Kanpur, 2026-01-04 Wave Optics Class XII CBSE NEET JEE Main Advanced Lecture Notes by Ramesh Chandra B Tech IIT Kanpur is a comprehensive and concept based study resource for Wave Optics in Class 12 Physics designed in accordance with NCERT guidelines and competitive examination requirements This book covers all major Wave Optics topics for CBSE Class XII NEET UG JEE Main and JEE Advanced including interference of light diffraction polarisation Huygens principle Young's Double Slit Experiment YDSE thin film interference diffraction grating resolving power Brewster's law Malus law and Polaroids Each topic is explained with clear theory standard derivations and exam oriented numerical methods Authored by an IIT Kanpur alumnus with over 14 years of teaching experience the lecture notes are structured to help students understand wave theory of light interpret intensity distribution graphs analyse path difference and phase difference and apply concepts to board level and competitive exam problems The content follows NCERT Physics Class 12 Wave Optics line by line with additional depth where required for NEET Physics and JEE Advanced Physics The book includes solved examples derivations conceptual questions and previous year questions PYQs from NEET and JEE examinations enabling students to align their preparation with actual exam patterns Key features of the book include Complete Wave Optics theory for Class 12 Physics Conceptual explanation of interference diffraction and polarisation Numerical problem solving techniques for NEET and JEE Graph based and derivation based questions Fully solved NEET JEE Main Advanced PYQs Clear diagrams and step wise logical presentation This book serves as an effective lecture companion revision guide and practice resource for students preparing for CBSE Board Exams NEET UG JEE Main and JEE Advanced An essential resource for mastering Wave Optics with clarity and exam level confidence

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