



# Laboratory Manual

# Mathematics

## CBSE Class XII

(NCERT Based)



for Internal Assessment  
of Mathematics  
carrying **20 Marks**

Activities  
Projects  
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# Laboratory Manual Mathematics Class Xii

**Hussin A.Rothana**



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Goyal, 2023-04-30 Sections A 1 Experiments 2 Activities Sections B 1 Experiments 2 Activities 3 Suggested Investigatory 4  
Project Work *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
- 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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understand the scoring technique We hope this book will gratify students need for the new CBSE pattern board exam and smoothen their path to success We wish to utilize the opportunity to place on record our special thanks to all the members of the Content Development team for their efforts to create this wonderful book **Chemistry Lab Manual Class XII |**

**follows the latest CBSE syllabus and other State Board following the CBSE Curriculam.** Mr. Rohit Manglik, Mr.

Kaushalesh Dwivedi, 2022-08-04 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 top 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 **Physics Lab Manual Class**

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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 top 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 **Problems and Solutions**

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MATHEMATICS 1 Arithmetic Progression A P 2 Geometric Progression G P 3 Harmonic Progression H P 4 Properties of A P G P and H P 5 Permutation and Combination 6 Determinants 7 Matrices 8 Set Theory 9 Differentiation 10 Integration STATISTICS 1 Measures of Central Tendency Arithmetic Mean 2 Median 3 Mode 4 Geometric Mean 5 Harmonic Mean 6 Analysis of Time Series 7 Theory of Probability 8 Interpolation and Extrapolation Log and Antilog Tables Latest Model Paper Board Examination Paper **CBSE MCQs Chapterwise For Term I & II, Class 12, Mathematics** Career Point

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## **Table of Contents Laboratory Manual Mathematics Class Xii**

1. Understanding the eBook Laboratory Manual Mathematics Class Xii
  - The Rise of Digital Reading Laboratory Manual Mathematics Class Xii
  - Advantages of eBooks Over Traditional Books
2. Identifying Laboratory Manual Mathematics Class Xii
  - 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 Laboratory Manual Mathematics Class Xii
  - User-Friendly Interface
4. Exploring eBook Recommendations from Laboratory Manual Mathematics Class Xii
  - Personalized Recommendations
  - Laboratory Manual Mathematics Class Xii User Reviews and Ratings
  - Laboratory Manual Mathematics Class Xii and Bestseller Lists
5. Accessing Laboratory Manual Mathematics Class Xii Free and Paid eBooks
  - Laboratory Manual Mathematics Class Xii Public Domain eBooks
  - Laboratory Manual Mathematics Class Xii eBook Subscription Services
  - Laboratory Manual Mathematics Class Xii Budget-Friendly Options
6. Navigating Laboratory Manual Mathematics Class Xii eBook Formats

- ePub, PDF, MOBI, and More
- Laboratory Manual Mathematics Class Xii Compatibility with Devices
- Laboratory Manual Mathematics Class Xii Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Laboratory Manual Mathematics Class Xii
  - Highlighting and Note-Taking Laboratory Manual Mathematics Class Xii
  - Interactive Elements Laboratory Manual Mathematics Class Xii
- 8. Staying Engaged with Laboratory Manual Mathematics Class Xii
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Laboratory Manual Mathematics Class Xii
- 9. Balancing eBooks and Physical Books Laboratory Manual Mathematics Class Xii
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Laboratory Manual Mathematics Class Xii
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Laboratory Manual Mathematics Class Xii
  - Setting Reading Goals Laboratory Manual Mathematics Class Xii
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Laboratory Manual Mathematics Class Xii
  - Fact-Checking eBook Content of Laboratory Manual Mathematics Class Xii
  - 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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basic statements 1 birds are the only living animals that have feathers 2 all birds fly 3 all birds have two wings 4 birds lose and replace their worn or damaged feathers 5 all birds have thick heavy bones that provide the structure they need to fly 6 birds have poor eyesight 7 birds have heartbeats that are slower than humans 8

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