

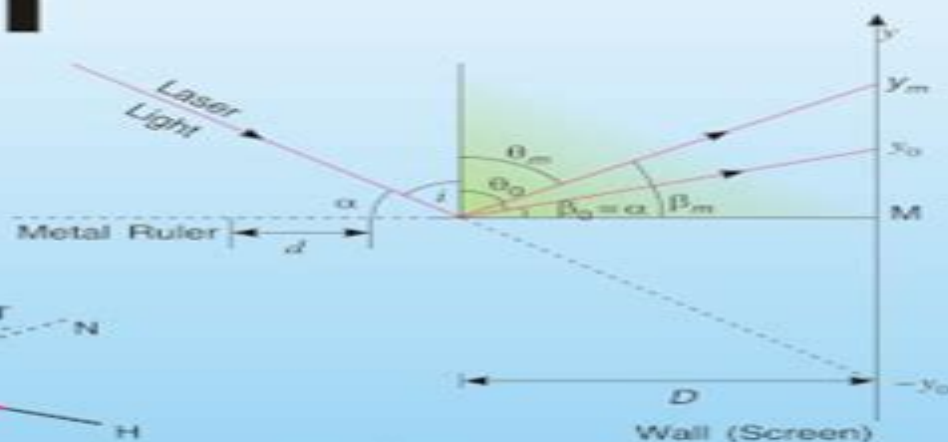
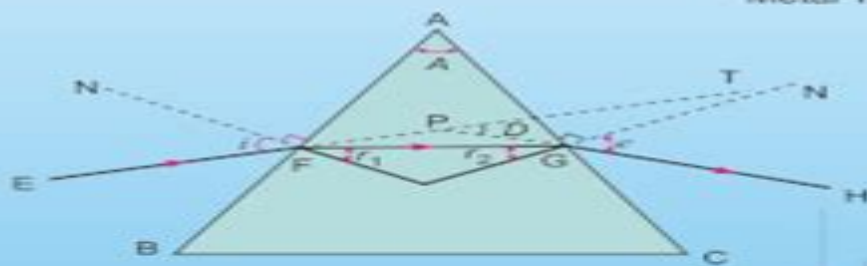
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 Section B Medieval India 5 The Ain I Akbari Agrarian Relations 6 The Mughal Court Reconstructing History through
 Chronicles 7 Architecture of Hampi Vijaynagara 8 Religious History The Bhakti Sufi Tradition 9 Medieval Society through
 Foreign Travellers Accounts Section C Modern India 10 Colonialism and Rural Society Evidence from Official Reports 11
 1857 A Review 12 Colonial Cities Urbanisation Planning and Architecture 13 Mahatma Gandhi through Contemporary Eyes
 and His Role in the Indian Politics 14 Partition of India and Its Study through Oral Sources 15 Making of the Indian
 Constitution Appendix 1 Chronology of Important Events in Indian History 2 Major Dynasties and Associated Kings of Indian
 History 3 Sacraments and Symbols 4 Foreign Travellers in India 5 Ancient and Medieval Texts 6 Major Wars Battles of Indian
 History and their Consequences 7 British Governors Governor Generals and Viceroys of India 8 Famous Slogans and Related
 Personalities of the Indian National Movement 9 Famous Hindi Newspapers of Modern India Year of Inception Their Founder
 and Place 10 Major Political Social and Nationalist Organizations of Modern India 11 India s Leading Leaders and their Titles
 Surnames 12 Congress Sessions President and Important Facts 13 Revolutionary Event under the Freedom Movement
 Competency Focused Questions Board Examination Papers [EduGorilla's CBSE Class 12th Physics Lab Manual | 2024
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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 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

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Table of Contents Comprehensive Laboratory Manual Physics Class Xii Cbse

1. Understanding the eBook Comprehensive Laboratory Manual Physics Class Xii Cbse
 - The Rise of Digital Reading Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Advantages of eBooks Over Traditional Books
2. Identifying Comprehensive Laboratory Manual Physics Class Xii Cbse
 - 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 Comprehensive Laboratory Manual Physics Class Xii Cbse
 - User-Friendly Interface

4. Exploring eBook Recommendations from Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Personalized Recommendations
 - Comprehensive Laboratory Manual Physics Class Xii Cbse User Reviews and Ratings
 - Comprehensive Laboratory Manual Physics Class Xii Cbse and Bestseller Lists
5. Accessing Comprehensive Laboratory Manual Physics Class Xii Cbse Free and Paid eBooks
 - Comprehensive Laboratory Manual Physics Class Xii Cbse Public Domain eBooks
 - Comprehensive Laboratory Manual Physics Class Xii Cbse eBook Subscription Services
 - Comprehensive Laboratory Manual Physics Class Xii Cbse Budget-Friendly Options
6. Navigating Comprehensive Laboratory Manual Physics Class Xii Cbse eBook Formats
 - ePub, PDF, MOBI, and More
 - Comprehensive Laboratory Manual Physics Class Xii Cbse Compatibility with Devices
 - Comprehensive Laboratory Manual Physics Class Xii Cbse Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Highlighting and Note-Taking Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Interactive Elements Comprehensive Laboratory Manual Physics Class Xii Cbse
8. Staying Engaged with Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Comprehensive Laboratory Manual Physics Class Xii Cbse
9. Balancing eBooks and Physical Books Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Comprehensive Laboratory Manual Physics Class Xii Cbse
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Setting Reading Goals Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Comprehensive Laboratory Manual Physics Class Xii Cbse
 - Fact-Checking eBook Content of Comprehensive Laboratory Manual Physics Class Xii Cbse
 - 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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