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**Class XII**  
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# Labrotary Manual Physics Arya Publication Class 12

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## **Labrotary Manual Physics Arya Publication Class 12:**

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 **Indian National Bibliography** B. S. Kesavan,2017-05 *The Indian National Bibliography* ,2017-04

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**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 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     *Physics 12 Laboratory Manual* WVU, Physics Staff, Wvu Physics, 1992-06-01     *Lab Manual-Physics-TB-11\_E-R1* Dr R K Gupta, Lab Manual Physics TB 11\_E R1     *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     Indian Books in Print ,2000     Whitaker's Books in Print ,1998     **International Books in Print** ,1997     *Forthcoming Books* Rose Arny, 1999-08     **Scientific and Technical Books and Serials in Print** ,1984     **Scientific and Technical Books in Print** ,1972

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## **Table of Contents Labrotary Manual Physics Arya Publication Class 12**

1. Understanding the eBook Labrotary Manual Physics Arya Publication Class 12
  - The Rise of Digital Reading Labrotary Manual Physics Arya Publication Class 12
  - Advantages of eBooks Over Traditional Books
2. Identifying Labrotary Manual Physics Arya Publication Class 12
  - 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 Labrotary Manual Physics Arya Publication Class 12
  - User-Friendly Interface
4. Exploring eBook Recommendations from Labrotary Manual Physics Arya Publication Class 12
  - Personalized Recommendations
  - Labrotary Manual Physics Arya Publication Class 12 User Reviews and Ratings
  - Labrotary Manual Physics Arya Publication Class 12 and Bestseller Lists
5. Accessing Labrotary Manual Physics Arya Publication Class 12 Free and Paid eBooks

- Labrotary Manual Physics Arya Publication Class 12 Public Domain eBooks
  - Labrotary Manual Physics Arya Publication Class 12 eBook Subscription Services
  - Labrotary Manual Physics Arya Publication Class 12 Budget-Friendly Options
6. Navigating Labrotary Manual Physics Arya Publication Class 12 eBook Formats
- ePub, PDF, MOBI, and More
  - Labrotary Manual Physics Arya Publication Class 12 Compatibility with Devices
  - Labrotary Manual Physics Arya Publication Class 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Labrotary Manual Physics Arya Publication Class 12
  - Highlighting and Note-Taking Labrotary Manual Physics Arya Publication Class 12
  - Interactive Elements Labrotary Manual Physics Arya Publication Class 12
8. Staying Engaged with Labrotary Manual Physics Arya Publication Class 12
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Labrotary Manual Physics Arya Publication Class 12
9. Balancing eBooks and Physical Books Labrotary Manual Physics Arya Publication Class 12
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Labrotary Manual Physics Arya Publication Class 12
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Labrotary Manual Physics Arya Publication Class 12
- Setting Reading Goals Labrotary Manual Physics Arya Publication Class 12
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Labrotary Manual Physics Arya Publication Class 12
- Fact-Checking eBook Content of Labrotary Manual Physics Arya Publication Class 12
  - 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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