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**RACHNA  
SAGAR**

# Rachna Sagar Class 10 Lab Manual

**Neena Sinha, R.Rangarajan, Rajesh  
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2 To find the focal length of a convex lens by plotting graphs between  $u$  and  $v$  or between  $1/u$  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 angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror 8 To draw the  $I-V$  characteristic curve of a  $p-n$  junction in forward bias and reverse bias 9 To draw the characteristic 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

**Activities**

1 To study effect of intensity of light by varying distance of the source on a  $LDR$  2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items 3 Use of multimeter to i identify base of transistor ii distinguish between  $n-p-n$  and  $p-n-p$  type transistors iii see the unidirectional flow of current in case of a diode and a LED iv check whether a given electronic component 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 polarization 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 a candle and a screen for different distances 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 Projects**

1 To investigate whether the energy of a simple pendulum is conserved 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration 4 To compare effectiveness of different materials as insulators of heat 5 To determine the wavelengths of laser beam by diffraction 6 To study various factors on which the internal resistance  $emf$  of a cell depends 7 To construct a time switch and study dependence of its time constant on various factors 8 To study infrared radiations emitted by different sources using photo transistor 9 To compare effectiveness of different materials as absorbers of sound 10 To design an automatic traffic signal system using suitable combination of logic gates 11 To study luminosity of various electric lamps of different powers and make 12 To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve 13 To study collision of two balls in two dimensions 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit

Laboratory Manual for Physical Science; Standards 9 and 10. By J. A. Meiring and G. de Villiers Jan Abraham MEIRING, G. DE VILLIERS, 1971\*

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## **Table of Contents Rachna Sagar Class 10 Lab Manual**

1. Understanding the eBook Rachna Sagar Class 10 Lab Manual
  - The Rise of Digital Reading Rachna Sagar Class 10 Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Rachna Sagar Class 10 Lab Manual
  - 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 Rachna Sagar Class 10 Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Rachna Sagar Class 10 Lab Manual
  - Personalized Recommendations
  - Rachna Sagar Class 10 Lab Manual User Reviews and Ratings
  - Rachna Sagar Class 10 Lab Manual and Bestseller Lists
5. Accessing Rachna Sagar Class 10 Lab Manual Free and Paid eBooks
  - Rachna Sagar Class 10 Lab Manual Public Domain eBooks
  - Rachna Sagar Class 10 Lab Manual eBook Subscription Services
  - Rachna Sagar Class 10 Lab Manual Budget-Friendly Options

6. Navigating Rachna Sagar Class 10 Lab Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Rachna Sagar Class 10 Lab Manual Compatibility with Devices
  - Rachna Sagar Class 10 Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Rachna Sagar Class 10 Lab Manual
  - Highlighting and Note-Taking Rachna Sagar Class 10 Lab Manual
  - Interactive Elements Rachna Sagar Class 10 Lab Manual
8. Staying Engaged with Rachna Sagar Class 10 Lab Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rachna Sagar Class 10 Lab Manual
9. Balancing eBooks and Physical Books Rachna Sagar Class 10 Lab Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Rachna Sagar Class 10 Lab Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Rachna Sagar Class 10 Lab Manual
  - Setting Reading Goals Rachna Sagar Class 10 Lab Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Rachna Sagar Class 10 Lab Manual
  - Fact-Checking eBook Content of Rachna Sagar Class 10 Lab Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements



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the gp suggested trying overeaters anonymous which was facilitated by a seemingly rare gay therapist  
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