

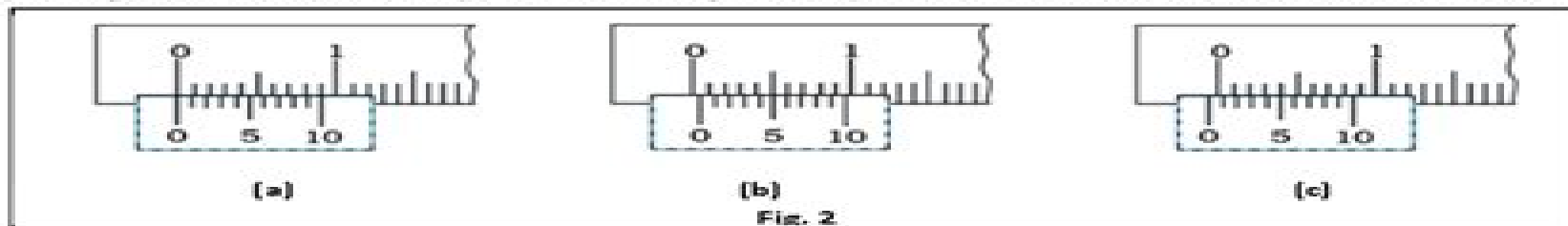
Pre-Lab 1: “Vernier Callipers”

- Aims:**
- (i) To understand the use of the Vernier Calipers.
 - (ii) To measure the diameter of a small spherical/ cylindrical body.
 - (iii) To measure the dimensions (length, width and height) of the given rectangular block.
 - (iv) To measure the internal diameter and depth of a given beaker/ calorimeter and hence find its volume.

Theory: Vernier Calipers is a device to measure lengths accurate upto $1/10^{th}$ or $1/20^{th}$ of a millimetre. It consists of rectangular steel bar having graduations in inches on one edge and in centimetres on the other edge as shown in the Fig. 1. This constitutes the main scale or linear scale. Over this scale slides an auxiliary scale also called as the vernier scale.



It has two outer measuring jaws A and B. The jaw A is fixed at the end of the rectangular bar towards zero side while the other jaw B is capable of sliding along the edge of the main scale. The inner measuring jaws P and Q are projected in the upper part of the device where P is fixed and Q is movable. The two vernier scales are attached to the movable jaw as shown. The retainer is used to slide the vernier scale on the main scale and also helps to retain the body (externally or internally) across either pair of jaws of the Vernier calipers. When two jaws are put in contact with each other, the zero of the



vernier scale should coincide with the zero of the main scale [Fig. 2(a)]. If it is not so, then the device is

Lab Manual For Vernier Calliper Experiment

N Noddings



Lab Manual For Vernier Calliper Experiment:

A Laboratory Manual of Experiments in Physics Leonard Rose Ingersoll, 1925 *Practical/Laboratory Manual Physics*
Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal Dr. J. P. Goel ,Er. Meera Goyal, 2020-06-26

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 2 Screw Gauge Micrometer 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 6 To measure the volume of an irregular lamina by using a screw gauge Viva voce 3 Spherometer 7 To measure the radius of curvature of a given spherical surface convex lens by using a spherometer Viva voce 4 Mass and Weight 8 To determine the mass of two different objects using a beam balance Viva voce 5 Parallelogram Law of Vectors 9 To find the weight of a given body using parallelogram law of vectors Viva voce 6 Simple Pendulum Measurement of Time 10 Using a simple pendulum plot L T and L 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 8 Motion of a Body Along an Inclined Plane 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and \sin Viva voce SECTION B EXPERIMENTS 1 Elasticity 1 To determine the Young s modulus of elasticity of the material of the wire using Searle s apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle s Gas Law 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 $1/V$ 18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To determine the co effective of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva voce 6 Newton s Law of Cooling 6 To study the relationship between temperature of a hot body and time by plotting a cooling curv Viva voce 7 Vibrations of Strings 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva voce 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva voce 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

ICSE-Lab Manual Physics-TB-09 Dr M K Gandhi, ICSE Lab Manual Physics TB 09

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Practical Physics; a Laboratory Manual for Colleges and Technical Schools William Suddards Franklin, C. M., Crawford, Barry MacNutt, 1908

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Physics Lab Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual

Core Laboratory Manual of Physics for Class XI Anil Sharma, Prashant Sharma, Goyal Brothers Prakashan, 2020-04-16 Goyal Brothers Prakashan

PHYSICS LABORATORY PRACTICAL MANUAL JANE WHITE, 1 To determine the wavelength of monochromatic light by Newton's ring 2 To determine the wavelength of monochromatic light with the help of Fresnel's biprism 3 To determine the focal length of two lenses by

nodal slide and locate the position of cardinal points 4 To determine the specific rotation of canesugar solution using biquartz or half shade polarimeter 5 To determine the wavelength of spectral lines using plane transmission grating 6 To study the polarisation of light by simple reflection using laser 7 To determine the wavelength of a laser He Ne light using single slit diffraction 8 To determine the specific resistance of the material of given wire using Carey Foster s bridge 9 To study the variation of magnetic field along the axis of current carrying circular coil and then to estimate the radius of the coil 10 To verify Stefan s law by electrical method 11 To calibrate the given ammeter and voltmeter by potentiometer 12 To study the Hall effect and determine Hall coefficient carrier density and mobility of a given semiconductor using Hall effect set up 13 To determine the energy band gap of a given semiconductor material 14 To determine the energy band gap of a semiconductor material using four probe method 15 To determine electro chemical equivalent E/C of copper using tangent or Helmholtz galvanometer 16 To draw the hysteresis curve B H curve of a given specimen of ferromagnetic material and from this to determine its hysteresis loss 17 To determine the ballistic constant of a moving coil ballistic galvanometer 18 To determine the coefficient of viscosity of water by Poiseuille s method 19 To determine the coefficient of viscosity of a liquid by rotating viscometer 20 To measure fiber attenuation and numerical aperture of fiber 21 To determine high resistance by leakage method 22 To determine magnetic susceptibility of a paramagnetic solution by Quincke s method

A Laboratory Manual of Physics for Use in High Schools Henry Crew, Robert Richardson Tatnall, 1902 Laboratory Manual of Industrial Pharmacy I

Dr. Kailas Mali, Mrs. Maya Tukaram Desai i, Dr. Avinash Hanmant Hosmani, Dr. Nitin Hindurao Salunkhe, 2023-09-28 We are very pleased to put forth the first edition of Laboratory Manual of Industrial Pharmacy I We believe that the manual will fulfill the aspirations of Industrial Pharmacy teachers and students too This manual is prepared as per PCI Education Regulations 2014 for Degree Course in Pharmacy Each experiment is arranged sequentially such as aim practical significance practical outcomes theory requirements procedure observations calculations results conclusions and synopsis questions Each experiment offers an opportunity to perform practical work allowing students to acquire proficiency in effectively managing equipment handling glassware chemicals and writing conclusion In addition questions are provided at the end of the experiments to enhance student s knowledge which will be beneficial for them as they pursue higher studies During the laboratory period you will have to multitask while you are doing experiment It is essential to document properly what you do and what you observe while doing the practical Always plan your work ahead and think about what you are doing why you are doing it what is happening and what you can conclude from your experiment This manual is a sincere effort to improve the practical skills of the students so that every student will understand the objective of each experiment and perform their practical s smoothly Theory of each experiment is given in all sixteen experiments making the manual more informative and interesting We acknowledge the help and co operation extended by various people in bringing out this manual We are highly indebted to the authors of various books and articles mentioned in bibliography which became a major source of information

for writing this manual We also thank the publishers designers and printers who graciously worked hard to publish this manual in time We hope that this manual will assist students in understanding concepts principles and performing procedures We wish you all the best

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Physical Laboratory Manual for Secondary Schools Silas Ellsworth Coleman, 1903 Hard Bound Lab Manual Physics Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals *Lab Manual-Physics-TB-11_E-R1* Dr R K Gupta, Lab Manual Physics TB 11_E R1 *Engineering Practices Lab Manual - 5Th E T* Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field

A Laboratory Manual of Elementary College Physics Harry Emmons Hammond, 1926 *Laboratory Manual of Pharmaceutics* Dr. Remeth J. Dias, Dr. Kailas Mali, Mr. Vijay D. Havaldar, Dr. Vishwajeet S. Ghorpade, 2023-09-28 We are very pleased to put forth the revised edition of Laboratory Manual of Pharmaceutics We have incorporated all the suggestions modified it to make it easier student friendly and relevant in terms of achieving curriculum outcome We are very much thankful to all the learned teachers who have given their feedback whole heartedly We have even incorporated the changes in this manual based on the feedback given by the teachers from all the institutes Now we believe that the manual has been fulfilling the aspirations of pharmaceutics teachers and students too This manual is prepared as per PCI Education Regulations 2020 for Diploma Course in Pharmacy The procedures and formulas of all the experiments are reviewed and added so that the advancement in the methods or apparatus can be addressed This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes minimum theoretical background resources used procedure precautions observations result conclusion references and related questions We have also given the readings for the reference of students and better understanding Moreover assessment scheme is also given to help the

student and teacher to know what to be assessed A sincere attempt has been made through this manual to provide practical knowledge to the students related to various topics of Pharmaceutics The manual mainly includes the experiments through which the students will learn to prepare conventional dosage forms and few cosmetic formulations in the laboratory Besides experiments related to handling of Indian Pharmacopoeia and National formulary of India will make the students familiar with the Indian official compendiums The demonstration based experiments will help the students to understand the tablet compression process and quality control test of tablets capsules emulsions and single dose parenteral preparations A brief introduction to various dosage forms before the related experiments can assist in better perception of the experiment Each experiment is divided into sections like aim practical significance relevant professional competencies relevant course outcomes practical skills relevant affective domain related outcomes practical outcomes minimum theoretical background requirements contents marketed preparations related questions references and assessment scheme The manual has been designed with more emphasis on the practical skill improvement of the students so that the students can perform the practical with ease and comfort Hope this manual will help the students to learn the concept principles and perform the experiments virtually We wish you all the best

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Table of Contents Lab Manual For Vernier Calliper Experiment

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

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