

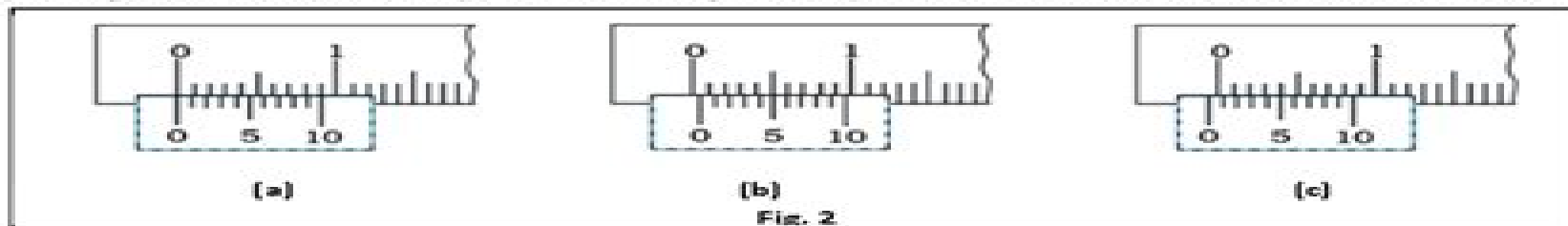
Pre-Lab 1: “Vernier Callipers”

- 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

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Hosmani, Dr. Nitin Hindurao Salunkhe**

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A Laboratory Manual of Experiments in Physics Leonard Rose Ingersoll, 1925 Physics Lab Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual *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, 2020-06-24

SECTION A 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 vs T and L vs 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 $\sin \theta$ 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 coefficient 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 curve 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

Practical Physics; a Laboratory Manual for Colleges and Technical Schools William Suddards Franklin, C. M., Crawford, Barry MacNutt, 1908 **Lab Manual-Physics-TB-11_E-R1** Dr R K Gupta, Lab Manual Physics TB 11_E R1 **ICSE-Lab Manual Physics-TB-09** Dr M K Gandhi, ICSE Lab Manual Physics TB 09 **Core Laboratory Manual of Physics for Class XI** Anil Sharma, Prashant Sharma, Goyal Brothers Prakashan, 2020-04-16 Goyal Brothers Prakashan A Laboratory Manual of Physics for Use in High Schools Henry Crew, Robert Richardson Tatnall, 1902 **Physics Lab Manual Class XI | According to the latest CBSE syllabus and other State Boards following the CBSE curriculum** Mr. Rohit Manglik, Mr. Pradeep 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 to 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 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 cane sugar 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 $E C E$ 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

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A

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