

Fig. (a) Simple Pendulum.

- (b) Effective length of simple pendulum, l = l' + h + r.
- (c) Marks on thread.

in simple

way



Class 11 Physics Pendulum Practical

University of Cincinnati

Class 11 Physics Pendulum Practical:

Practical/Laboratory Manual Physics Class XI based on NCERT quidelines 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 T2 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 interprect 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 itsend 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 **EduGorilla's CBSE Class 11th Physics Lab** Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce **Examination**, 2024-01-01 Need an informative and well illustrate Lab Manual CBSE Class 11th Physics Lab Manual is here for you The Lab Manual provides comprehensive steps for guiding students through each experiment Rigorously researched content prepared by a team of educators writers editors and proofreaders CBSE Class XI Physics Lab Manual has properly labeled high diagrams and graphs A separate section on Viva Questions has been included to aid students in their Viva examination The Lab Manual explains the complex topics through detailed illustrations and lucid language making them simple to grasp Worksheets have been provided in CBSE Class 11th Physics Lab Manual for doing rough work

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Table of Contents Class 11 Physics Pendulum Practical

- 1. Understanding the eBook Class 11 Physics Pendulum Practical
 - The Rise of Digital Reading Class 11 Physics Pendulum Practical
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Class 11 Physics Pendulum Practical
 - 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 Class 11 Physics Pendulum Practical
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Class 11 Physics Pendulum Practical
 - Personalized Recommendations
 - Class 11 Physics Pendulum Practical User Reviews and Ratings
 - Class 11 Physics Pendulum Practical and Bestseller Lists
- 5. Accessing Class 11 Physics Pendulum Practical Free and Paid eBooks
 - Class 11 Physics Pendulum Practical Public Domain eBooks
 - Class 11 Physics Pendulum Practical eBook Subscription Services
 - Class 11 Physics Pendulum Practical Budget-Friendly Options
- 6. Navigating Class 11 Physics Pendulum Practical eBook Formats

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