

# Answers To Boyles Law Lab Questions

Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal Practical Physics Labs Lab Experiments for Modern Chemistry Illustrated Guide to Home Chemistry Experiments PE Lab Exp(Noncons)Mod Chem 90 Lab Experiments Modern Chemistry The Essential Lab Manual Shipman Phys Sci Lab Gde 4/E Holt Physics Physics Guide and Lab Activities Laboratory Manual for General Chemistry Laboratory Manual [in] Engineering Physics ... Safety-Scale Lab Exp Biochem 2e Lab Manual to Accompany Introduction to Chemistry Laboratory Manual for College Physical Science Laboratory Experiments for Brown and LeMay, Chemistry, the Central Science Shipman Phy SC 2nd Ed Lab Man Physics Laboratory Experiments Lab Manual T/a Human Physiology Chemistry Dr. J. P. Goel Peter Goodwin Tzimopoulo Robert Bruce Thompson Tzimopoulo Harold Clark Metcalfe Karen Timberlake James T. Shipman Raymond A. Serway Ira Cleveland Davis Albert Lawrence Elder Seville Chapman Spencer L. Seager William L. Masterton James R. Chaplin John Henry Nelson James T. Shipman Jerry D. Wilson Bill W. Tillery Dorin Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal Practical Physics Labs Lab Experiments for Modern Chemistry Illustrated Guide to Home Chemistry Experiments PE Lab Exp(Noncons)Mod Chem 90 Lab Experiments Modern Chemistry The Essential Lab Manual Shipman Phys Sci Lab Gde 4/E Holt Physics Physics Guide and Lab Activities Laboratory Manual for General Chemistry Laboratory Manual [in] Engineering Physics ... Safety-Scale Lab Exp Biochem 2e Lab Manual to Accompany Introduction to Chemistry Laboratory Manual for College Physical Science Laboratory Experiments for Brown and LeMay, Chemistry, the Central Science Shipman Phy SC 2nd Ed Lab Man Physics Laboratory Experiments Lab Manual T/a Human Physiology Chemistry Dr. J. P. Goel Peter Goodwin Tzimopoulo Robert Bruce Thompson Tzimopoulo Harold Clark Metcalfe Karen Timberlake James T. Shipman Raymond A. Serway Ira Cleveland Davis Albert Lawrence Elder Seville Chapman Spencer L. Seager William L. Masterton James R. Chaplin John Henry Nelson James T. Shipman Jerry D. Wilson Bill W. Tillery Dorin

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  $I$   $t$  and  $I$   $t^2$  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 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 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

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