

Answers To Boyles Law Lab Questions

Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal
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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

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