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Class

9



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*Science Lab Manual Class IX | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.* Mr. Gopi Chandra Gupta, Mr. Shivam Tiwari, 2022-08-01 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 Mathematics and Science means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable

Lab Manual Science Class 09 Neena Sinha, R. Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce

*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  $L$  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  $\sin$

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  $\frac{1}{V}$  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

*NCERT Biology Practical/Lab Manual/Project Class 12* Dr. Sunita Bhagiya, Megha Bansal, 2024-09-29

EXPERIMENTS 1 To study pollen germination on slide 2 To study plant population density by quadrat method 3 To study plant population frequency by quadrat method 4 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine 5 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc SPOTTING 1 Pollination in flowers 2 Pollen germination 3 Slides of mammal tissues 4 Meiosis cell division 5 T.S. of Blastula 6 Mendel's inheritance laws 7

Pedigree chart 8 Controlled pollination 9 Common disease causing organisms 10 Symbolic Association in root nodules 11 Homologous and analogous organs PROJECTS 1 To study the different means of pollination 2 To study infectious diseases of humans 3 To study birth rate and death rate In your village or town 4 To study genetic disorders 5 To study malaria causes and disorders 6 To study causes symptoms and diagnosis of cancer 7 To study causes symptoms and diagnosis of AIDS 8 To study the applications and importance of Biotechnology 9 At the time of COVID 19 what kind of problems did your acquaintance have to face when he got covid 10 To study DRUG ABUSE 11 Name the medicinal drugs which are banned all over the world 12 Describe the response of biotic factors to abiotic factors in the environment 13 Biodiversity and Conservation Practices in Indian Culture 14 What has been the effect on pollution control after covid 15 To study Management of sewage and waste materials 16 To study the role of micro organisms in human welfare 17 To study about harmful micro organisms

**VIVA VOCE FOR PRACTICE** *Biology Lab Manual Class XII | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.* Dr. Priyanka Gupta, Mr. Kaushalesh 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

**Biology Lab Manual Class XI | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.** Dr. Priyanka Gupta, Mr. Kaushalesh 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

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Fiber-Reinforced Polymer Composites Madhu Puttegowda, Sanjay M. R., Suchart Siengchin, 2025-06-27 Fiber Reinforced Polymer Composites Materials and Manufacturing systematically explores the essential concepts and latest advancements in

fiber reinforced polymer composites This comprehensive book begins with an introduction to composite materials progressing to detailed discussions on reinforcements polymers and innovative manufacturing techniques It addresses characterization of these composites environmental considerations design and analysis joining and repair and their durability and performance Each chapter contributes to a deeper understanding from basic principles to sophisticated real world applications It is a valuable reference for researchers material scientists engineers polymer chemists and manufacturers invested in sustainable polymer composite materials Covers fundamental concepts and recent advances in the synthesis processing functionalization characterization and applications of fiber reinforced polymer composites Includes the latest developments in novel manufacturing methods across various industries Contains case studies of real world applications including selection fabrication and design as well as sustainable production practices and disposal Provides environmental and ecological aspects regulations standards recycling and lifecycle assessment Discusses commercialization economical and societal aspects and future prospects

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