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Lab Manual SCIENCE

Class 10



- ▶ **Experiments**
- ▶ **Viva-Voce**

Class 10 Chemistry Practical Lab Cbse

Education Experts



Class 10 Chemistry Practical Lab Cbse:

Practical/Laboratory Manual Science Class X based on NCERT guidelines by Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia & Er. Meera Goyal Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia, Er. Meera Goyal, 2020-06-26

Physics 1 To determine the focal length of concave mirror 2 To find the focal length of convex lens by two pin method 3 To find the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed 4 To trace the path of the rays of light through a glass prism 5 To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence 6 To study the dependence of potential difference V across a resistor on the current I passing through it and determine its resistance Also plotting a graph between V and I 7 To determine the equivalent resistance of two resistors when connected in series and parallel Chemistry 8 To find the pH of the following samples by using pH paper universal indicator 9 To study the properties of a base dil NaOH Solution and Acid HCl by their reaction with a Litmus solution Blue Red b Zinc metal c Solid sodium carbonate 10 To perform and observe the following reactions and to classify them into a Combination reaction b Decomposition reaction c Displacement reaction d Double displacement reaction i Action of water on quick lime ii Action of heat on ferrous sulphate crystals iii Iron nails kept in copper sulphate solution iv Reaction between sodium sulphate and barium chloride solutions 11 To observe the action of Zn Fe Cu and Al on the following salt solutions a ZnSO_4 aq b FeSO_4 aq c CuSO_4 aq d Al_2SO_4 3 aq Based on the above result to arrange Zn Fe Cu and Al metals in the decreasing order of reactivity 12 To study the following properties of acetic acid ethanoic acid i Odour ii Solubility in water iii Effect on litmus iv Reaction with sodium hydrogen carbonate 13 To study the comparative cleaning capacity of a sample of soap in soft and hard water Biology 14 To study stomata by preparing a temporary mount of a leaf peel 15 To show experimentally that carbon dioxide CO_2 is given out during aerobic respiration 16 To study A Binary fission in Amoeba and B Budding in yeast with the help of prepared slides 17 To identify the different parts of an embryo of a dicot seed pea gram or red kidney beans

Practical Skills in Science Class 10 R.P. Manchanda, Practical Book Educart CBSE Sample Paper Class 10 2025-26 Science (Introducing exclusive step-by-step new practice concept on 2026 pattern) Educart, 2025-09-02 This CBSE Class 10 Science Sample Paper book 2025-26 has been prepared under the guidance of Prasant Kirad Sir ensuring accuracy and exam focused practice for Class 10 students Book Structure 10 Full CBSE Sample Paper Class 10 2025-26 Science with detailed solutions Class 10 Science Chapter wise Practice Papers based on the rationalised syllabus Unit Test Worksheets for self assessment Competency based case based assertion reason questions included How Good are Educart Science Class 10 Sample Papers 100% based on the latest CBSE guidelines and July 30th official class 10 cbse sample papers Covers all typologies of questions that can be asked in the exam Chapter weightage reflected clearly to help students prioritise revision Includes Class 10 Science Previous Year Questions and DIKSHA sourced questions for extra practice Step by step solutions with expert explanations Topper's Corner

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Practical/Laboratory Manual Chemistry Class - XI Er. Meera Goyal, 2021-05-29 1 Basic Laboratory Techniques 1 To cut a glass tube or glass rod 2 To bend the glass rod at an angle 3 To draw a glass jet from a glass tube 4 To bore a cork and fit a glass tube into it Viva Voce 2 Characterisation and Purification of Chemical Substances 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique Viva Voce 2 To determine the

boiling point of a given liquid when available in small quantity simple laboratory method Viva Voce 3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample 4 To prepare the pure crystals of copper sulphate from the given crude sample 5 To prepare pure crystals of benzoic acid from a given impure sample Viva Voce 3

Measurement of pH Values 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper 4 To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH 5 To determine the change in pH value of weak base NH_4OH in presence of a common ion NH_4^+ Viva Voce 4

Chemical Equilibrium 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions 2 To study the shift in equilibrium between $Co(H_2O)_6^{2+}$ and Cl^- ions by changing the concentrations of either of the ions Viva Voce 5

Quantitative Analysis 1 To prepare M 10 oxalic acid solution by direct weighing method 2 To prepare M 10 solution of sodium carbonate by direct weighing method 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution Viva Voce 6

Qualitative Analysis Analysis of Anions Analysis of Cations Viva Voce 7

Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test Viva Voce

INVESTIGATORY PROJECTS 1 Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions Viva Voce 2

Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 To purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method Viva Voce 3

Water Analysis 1 To test the hardness of different water samples Viva Voce 4

Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap Viva Voce 5

Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper Viva Voce 6

Analysis of Fruits and Vegetable Juices 1 To analysis the fruit and vegetable juices for the constituent present in them Viva Voce 7

Rate of Evaporation 1 To study the rate of evaporation of different liquids Viva Voce 8

Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Viva Voce

Lab Manual Science Class 10 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

Academic Practical Science X Dr. N. K. Sharma, Bishan Lal, 2011-12

Comprehensive Experimental Chemistry V. K. Ahluwalia, Sudha Raghav, 1997

This Book Has Been Especially Written For Class Xii Students Under 10 2 Pattern Of Education According To The Syllabi Prescribed By The Cbse And Other States Boards This Book Will Help The Students In Acquiring Correct Skills In Practicals And Various Techniques Of All Laboratory Experiments Salient Features An Introduction To The Book Is Given This Describes The Laboratory Apparatus And Instructions And Precautions For Working In The Laboratory Simple Language And Lucid Style Adequate Number Of Illustrations To Explain And To Clarify The Use Of Various Apparatus Used In The Laboratory Theoretical Aspects Of Each Equipment Have Been Discussed Along With Experiments In Volumetric Analysis Both The Normality And Molarity Concepts Are Made Clear In Quantitative Analysis Inorganic And Organic Various Tests Have Been Given In A Systematic Way Specimen Recordings Of Experiments Are Given To Help The Students To Record On Their Notebooks Viva Voice Questions Have Been Included In Each Chapter A Fairly Large Number Of Investigatory Projects Covering Various Topics Are Given Selection Of Projects Is Carefully Made Which Can Be Easily Performed In School Laboratory An Appendix Describing Various Chemical Hobbies Is Given Which Will Be Extremely Helpful To The Students For The Development Of Chemical Hobbies Understanding The Basic Principles Involved And The Chemistry Of Various Hobbies An Appendix Describing Some Typical Chemical Exhibits Is Also Given This Will Help The Students To Participate In The Science Fairs Organized By Various Agencies These Experiments Will Cultivate Interest Among The Students For Learning Chemistry An Appendix Each For The Solubility S Of Various Salts Atomic Weights Preparation Of Various Reagents Indicator Papers And The First Aid To Be Administered In Case Of Accidents Is Given The Syllabi Prescribed For Class Xii Students Under 10 2 Pattern Along With Distribution Of Marks Is Also Given

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Comprehensive Practical Chemistry XII Dr. N . K. Verma, B. K. Vermani, Dr. Neera Verma, K . K. Rehani, 2011-11

Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal Dr. S. C. Rastogi , Er. Meera Goyal, 2020-06-23

An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards A Basic Laboratory Techniques 1 To

cut a glass tube or glass rod 2 To bend the glass rod at an angle 3 To draw a glass jet from a glass tube 4 To bore a cork and fit a glass tube into it

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- 2 Analysis of Cations

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- 5 To purify water by GAC method
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- 8 To purify water by ozone treatment method

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1. Understanding the eBook Class 10 Chemistry Practical Lab Cbse
 - The Rise of Digital Reading Class 10 Chemistry Practical Lab Cbse
 - Advantages of eBooks Over Traditional Books
2. Identifying Class 10 Chemistry Practical Lab Cbse
 - 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 10 Chemistry Practical Lab Cbse
 - User-Friendly Interface
4. Exploring eBook Recommendations from Class 10 Chemistry Practical Lab Cbse
 - Personalized Recommendations
 - Class 10 Chemistry Practical Lab Cbse User Reviews and Ratings
 - Class 10 Chemistry Practical Lab Cbse and Bestseller Lists
5. Accessing Class 10 Chemistry Practical Lab Cbse Free and Paid eBooks
 - Class 10 Chemistry Practical Lab Cbse Public Domain eBooks
 - Class 10 Chemistry Practical Lab Cbse eBook Subscription Services
 - Class 10 Chemistry Practical Lab Cbse Budget-Friendly Options
6. Navigating Class 10 Chemistry Practical Lab Cbse eBook Formats

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