

# SCIENCE

## LAB MANUAL



CLASS  
**IX**

- Introduction
- Lab Experiment
- Viva Voce



A Complete Lab  
Activity Book



# 9th Class Cbse Chemistry Lab Manual

**Lakhmir Singh & Manjit Kaur**

## **9th Class Cbse Chemistry Lab Manual:**

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**Complete Science Laboratory Manual CBSE For Class 9** Education Experts,2019-10      **Chemistry Lab Manual Class XI | Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculum.** Edugorilla Prep Experts,2022-07-05 Theories are incomplete without experimentation So in order to enhance the practical skills of students the CBSE conducts the practical exams for class 11 chemistry along with theoretical exams to test the scientific aptitude of students CBSE Class 11th chemistry Lab Manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other state board curriculum All the experiments in this Lab Manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of related experiments Mr Kaushalesh Dwivedi is the author of this complete lab activity book for class 11 chemistry All the lab based experiments have well labeled diagrams which clearly demonstrate the details of the apparatus that are used the correct way of handling Laboratory apparatus and perform the experiments methodically The basic purpose of this Lab Manual is to provide the students with appropriate guidance so that they can

easily understand carry out and document the experiments in the Science Laboratory The Lab Manual comes with practical lessons followed by lab experiments after each chapter projects and Notebook for jotting down all the essential information this develops a better understanding about the concept behind each class 11 chemistry theory there is an experiment which brings authentic and easy to retain conclusions through its observations and which is verified on a real time basis The aim of this Science Lab Manual is to help class 11 students to prepare and understand the complex chemistry concepts through experimental approach by utilizing pedagogically enhanced content of the Lab Manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities *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  $K_2SO_4 Al_2 SO_4 3 24H_2O$  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  $Co^{2+}$  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 IViva 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

*AP\* Lab Manual: Chemistry - 9th Edition ,2014* **SCIENCE FOR NINTH CLASS PART 2**

**CHEMISTRY** LAKHMIK SINGH, A series of six books for Classes IX and X according to the CBSE syllabus Each class divided into 3 parts Part 1 Physics Part 2 Chemistry Part 3 Biology **Science for Ninth Class Part 1 Chemistry** Lakhmir Singh & Manjit Kaur, A series of books for Classes IX and X according to the CBSE syllabus and CCE Pattern Academic Practical Science IX Dr. N. K. Sharma,Sarita Singh,2009 Comprehensive Practical Chemistry XI Dr. N. K. Verma,B. K. Vermani,Dr. Neera Verma,2010-02

**Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal** Dr. S. C. Rastogi ,Er. Meera Goyal,2020-06-22 A Surface Chemistry 1 To prepare colloidal solution sol of starch 2 To prepare a colloidal solution of egg albumin 3 To prepare colloidal solution of gum 4 To prepare colloidal solution of aluminium hydroxide  $Al OH$  3 5 To prepare colloidal solution of ferric hydroxide  $Fe OH$  3 6 To prepare colloidal solution of arsenious sulphide  $As2S3$  7 To purify a freshly prepared sol by dialysis 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions Viva Voce B Chemical Kinetics 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions 4 To study the rate of reaction between potassium iodate  $KIO3$  and sodium sulphite  $Na2SO3$  using starch solution as indicatorl Viva Voce C Thermochemistry 1 Determine the enthalpy of dis solution of copper sulphate  $CuSO4 \cdot 5H2O$  in water at Room temperature 2 To determine the enthalpy of neutralization of the reaction between  $HCl$  and  $NaOH$  3 To determine enthalpy change during the interaction between acetone and chloroform Viva Voce D Electrochemistry 1 To study the variation of cell potential in  $Zn Zn2 Cu2 Cu$  with change in concentration of electrolytes  $CuSO4$  or  $ZnSO4$  at room temperature Viva Voce E Chromatography 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their  $Rf$  values 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their  $Rf$  values 3 To separate  $Co2$  and  $Ni2$  ions present in the

given mixture by using ascending paper chromatography and determine their R<sub>f</sub> values Viva Voce F Preparation of Inorganic Compounds 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate 2 To prepare a pure sample of potash alum fitkari 3 Preparation of crystals of potassium ferric oxalate or potassium trioxlato ferrate III Viva Voce G Preparation of Organic Compounds 1 Preparation of iodoform from ethyl alcohol or acetone 2 Preparation of acetanilide in laboratory 3 Preparation of b Naphthol aniline dye 4 To prepare a pure sample of dibenzalacetone 5 To prepare a pure sample of p nitro acetanilide Viva Voce H Tests for the Functional Groups Present in Organic Compounds Viva Voce I Study of Carbohydrates Fats and Proteins 1 To study simple reactions of carbohydrate 2 To study simple reactions of fats 3 To study simple reactions of proteins 4 To investigate presence of carbohydrates fats and proteins in food stuffs Viva Voce J Volumetric Analysis 1 To prepare 250 ml of M 10 solution of oxalic acid 2 To prepare 250 ml of M 10 solution of ferrous ammonium sulphate 3 Prepare M 20 solution of oxalic acid with its help find out the molarity and strength of the given solution of potassium permanganate 4 Prepare M 20 solution of Mohr's salt using this solution determine the molarity and strength of potassium permanganate solution Viva Voce K Qualitative Analysis Viva Voce INVESTIGATORY PROJECTS 1 To study the presence of oxalate ions in guava fruit at different stages of ripening 2 To study the quantity of caseine present in different samples of milk 3 Preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc 4 To study the effect of potassium bisulphite as food preservative at various concentrations 5 To study the digestion of starch by salivary amylase and the effect of pH and temperature on it 6 To study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice 7 To extract essential oils present in saunf aniseed ajwain coriander illaichi cardomom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO<sub>2</sub> in brinjal

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

Chemistry Practical Manual Withers, 1971

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### **Table of Contents 9th Class Cbse Chemistry Lab Manual**

1. Understanding the eBook 9th Class Cbse Chemistry Lab Manual
  - The Rise of Digital Reading 9th Class Cbse Chemistry Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying 9th Class Cbse Chemistry Lab Manual
  - 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 9th Class Cbse Chemistry Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from 9th Class Cbse Chemistry Lab Manual
  - Personalized Recommendations
  - 9th Class Cbse Chemistry Lab Manual User Reviews and Ratings
  - 9th Class Cbse Chemistry Lab Manual and Bestseller Lists

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