

# CHEMISTRY

## Lab Manual

BASED ON CBSE SYLLABUS

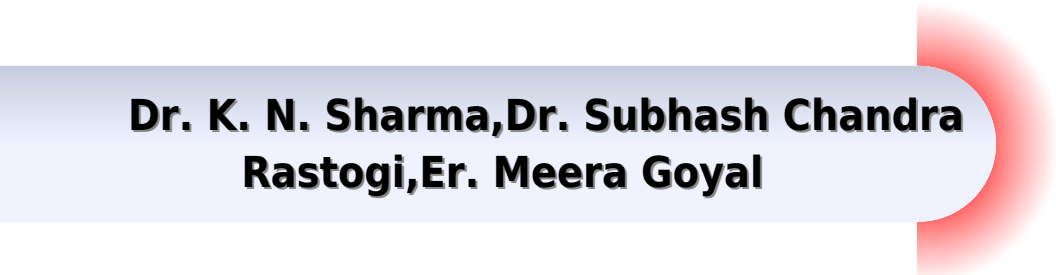


### KEY FEATURES

- Lab Experiments
- Investigatory Projects
- Viva-Voce Questions
- NCERT Lab Manual Questions

# **Ncert Chemistry Lab Manual Class 12 Laxmi Publication**

**Dr. K. N. Sharma, Dr. Subhash Chandra  
Rastogi, Er. Meera Goyal**



## **Ncert Chemistry Lab Manual Class 12 Laxmi Publication:**

*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

**B Characterisation and Purification of Chemical Substances**

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- 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

**C 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  $NH_4^+$

**D 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

**E 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

**F Qualitative Analysis**

- 1 Analysis of Anions
- 2 Analysis of Cations

**G 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

**INVESTIGATORY PROJECTS**

**A Checking of Bacterial Contamination in Water**

- 1 To check the bacterial contamination in drinking water by testing sulphide ions

**B 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

**C Water Analysis**

- 1 To test the hardness of different water samples

**D 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 E Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper F Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H 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 Log Antilog Table

*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

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### **Chemistry Lab Manual**

**Class XII Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculum.** Edugorilla Prep Experts, 2022-07-05 Chemistry is all about conducting various experiments and having a deep study about them This deep analysis and study cannot solely be done with theories and practical experiments are necessary for better skill development of the students Considering this every year CBSE conducts the chemistry practicals in addition to the theory examinations This class 12 chemistry lab manual contains all the essential information that the students will require while commencing the practicals CBSE class 12th 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 12 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 The aim of this Science Lab Manual is to help class 12 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  $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$  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 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

**Comprehensive Chemistry Activities Vol.I XI** Dr. N . K. Verma,2011-12 Comprehensive

Practical Chemistry (Abhilekhan) XII Dr. N.K. Verma, Avinash Ojha, 2008-05-01 *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 performing 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.

**Comprehensive Laboratory Manual in Biology XII** Dr. J. P. Sharma, 2011-04-01 Comprehensive Chemistry XII, **Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines** Dr. S. C. Rastogi, Er. Meera Goyal, 2022-02-25 An Excellent Book in Accordance with the latest syllabus for class XII Prescribed by CBSE, NCERT and Adopted by Various State Education Boards.

**Surface Chemistry**

- 1 To prepare colloidal solution of starch
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- 6 To prepare colloidal solution of arsenious sulphide  $\text{As}_2\text{S}_3$
- 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  $\text{KIO}_3$  and sodium sulphite  $\text{Na}_2\text{SO}_3$  using starch solution as indicator.

Viva

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**CBSE Class 12 Chemistry Chapter-wise Question Bank - NCERT + Exemplar + PAST 15 Years Solved Papers 8th Edition** Disha Experts, 2022-08-02 The thoroughly Updated 8th Edition of the book CBSE Class 12 Chemistry Chapter wise Question Bank NCERT Exemplar PAST 15 Years Solved Papers provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students NCERT Solutions Exemplar Solutions Solved Papers Past 13 Years for CBSE Class 12 The book



is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter exercises Section 2 Past Year Questions of Past 13 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems The Book will prove to be a One Stop Question Bank for CBSE Exams      **Exam Kit In Chemistry XII** Dr. N. K. Sharma,2011-05-01      **10 in One Study Package for CBSE Chemistry Class 12 with 5 Model Papers 2nd Edition** Disha Experts, 10 in ONE CBSE Study Package Chemistry class 12 with 5 Sample Papers 2nd Edition has 10 key ingredients that will help you achieve success 1 Chapter Utility Score which provides a score for the Importance of each chapter based on the questions asked in the various exams 2 All India Board 2017 18 Solved Paper provided separately to understand the pattern 3 Exhaustive theory based on the syllabus of NCERT books along with the concept maps for the bird s eye view of the chapter 4 NCERT Solutions All NCERT Exercise Questions fully solved 5 VSA SA LA Questions Sufficient Practice Questions divided into VSA SA LA type Numericals are also included wherever required 6 Past Years Questions Past 10 year Questions 2007 2016 of Board Exams are also included in every chapter 7 HOTS Exemplar Value based Questions High Order Thinking Skill Based Moral Value Based and Selective NCERT Exemplar Questions included 8 Chapter Test A time bound test to assess your preparation in each chapter 9 Important Formulae Terms and Definitions for quick revision 10 Full syllabus Sample Papers 5 papers with detailed solutions designed exactly on the latest pattern of CBSE Board      Chemistry Simplified NCERT Class 12 Sanjay Sharma,2020-04-26 Competitive exams have been the new approach to life for all students Every good college is attainable through a National or Regional Level exam NCERT Textbooks have become the benchmark for syllabus and theory for these exams Every student needs to learn these textbooks by heart But it s always compact and feels short Simplified NCERT from Arihant is one of a kind reference book which helps student to grasp all key points and concepts in a simple manner which is easy to retain yet clearing all concepts Chemistry as a subject needs visualization to learn the latest edition has been made in such a way that you can attain the entire chemistry concept in an easy and interactive language The book is developed volume wise to cater class wise needs **TABLE OF CONTENT** The Solid State Solutions Electrochemistry Chemical Kinetics Surface Chemistry Elements ke Isolation ke General Principles evmProcesses The p Block Elements The d and f Block Elements Coordination Compounds Haloalkanes and Haloarenes Alcohols Phenols and Ethers Aldehydes Ketones va Carboxylic Acids Amines Biomolecules Polymers Chemistry in Everyday Life      **Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications)** Dr. K. N. Sharma,Dr. Subhash Chandra Rastogi,Er. Meera Goyal,2021-07-03 Highly Useful for Various Engineering and Medical Competitive Examinations      *NCERT Solutions Chemistry Class 12th* Geeta Rastogi,2022-12-16 NCERT books are not only considered as best study materials for CBSE board exams but also for some of the highly competitive exams such as NEET JEE etc The NCERT SOLUTIONS series for class VI XII offers a complete package of the syllabus along with well explained chapters of every subject in a concise way Here s reintroducing you to the freshly updated

edition of the NCERT Exercises Solutions series NCERT SOLUTIONS CHEMISTRY which has been consciously designed for class XII students This book provides a complete solution to all the Chemistry chapter exercises of the NCERT book along with detailed explanations to easily learn concepts and enhance thinking and learning abilities To get a quick recap of each concept two Additional features that is Thinking Process Notes are also included in each chapter This book also covers solutions to selected problems of NCERT Exemplar Problems A comprehensive Exercise solution book of NCERT Provides a complete solution to NCERT Chemistry Detailed Explanations to understand each concept easily Additional features include Thinking Process Notes Covers solutions of NCERT Exemplar Problems TABLE OF CONTENT The Solid State Solutions Electrochemistry Chemical Kinetics Surface Chemistry Process of Isolation of Elements The p Block Elements The d and f block Elements Coordination Compounds Haloalkanes and Haloarenes Alcohols Phenols Ethers Aldehydes Ketones Carboxylic Acids Amines Biomolecules Polymers Chemistry in Everyday Life      **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  $\text{Al}(\text{OH})_3$  5 To prepare colloidal solution of ferric hydroxide  $\text{Fe}(\text{OH})_3$  6 To prepare colloidal solution of arsenious sulphide  $\text{As}_2\text{S}_3$  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  $\text{KIO}_3$  and sodium sulphite  $\text{Na}_2\text{SO}_3$  using starch solution as indicator Viva Voce C Thermochemistry 1 Determine the enthalpy of dissolution of copper sulphate  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  in water at Room temperature 2 To determine the enthalpy of neutralization of the reaction between  $\text{HCl}$  and  $\text{NaOH}$  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  $\text{Zn}|\text{Zn}^{2+}||\text{Cu}^{2+}|\text{Cu}$  with change in concentration of electrolytes  $\text{CuSO}_4$  or  $\text{ZnSO}_4$  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  $R_f$  values 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their  $R_f$  values 3 To separate  $\text{Co}^{2+}$  and  $\text{Ni}^{2+}$  ions present in the given mixture by using ascending paper chromatography and determine their  $R_f$  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 trioxalato ferrate III Viva Voce G Preparation of Organic Compounds 1

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**Physical Chemistry Laboratory Manual** Ramesh Kumari, Amirtha Anand, 2018-10-05 This book covers the latest syllabus of CBCS pattern of Delhi and other universities for both B Sc Programme and Honours courses A large number of Physical Chemistry Environmental Chemistry Nanoscience Polymer Chemistry and Analytical Chemistry experiments have been covered using interdisciplinary and innovative methods The contents include some fundamental chemical concepts measurement of surface tension and viscosity colorimetry determination of order of a reaction heterogeneous equilibria adsorption on solid surfaces thermochemical measurements conductometric and potentiometric measurements pH metry environmental parameter analysis etc Wherever possible two or more methods are given So the teachers and students will have a choice to make depending on the availability of chemicals apparatus instruments time etc This book will give them the opportunity to relate theory and practicals for a better understanding of the subject **Comprehensive Practical Chemistry XI** Dr. N. K. Verma, B. K. Vermani, Dr. Neera Verma, 2010-02

## Embracing the Melody of Term: An Mental Symphony within **Ncert Chemistry Lab Manual Class 12 Laxmi Publication**

In some sort of used by displays and the ceaseless chatter of fast transmission, the melodic beauty and mental symphony produced by the prepared word usually diminish into the back ground, eclipsed by the persistent sound and distractions that permeate our lives. But, nestled within the pages of **Ncert Chemistry Lab Manual Class 12 Laxmi Publication** an enchanting literary treasure brimming with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this captivating masterpiece conducts visitors on a psychological trip, well unraveling the hidden tunes and profound influence resonating within each carefully crafted phrase. Within the depths with this touching examination, we can explore the book is key harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

[https://crm.allthingsbusiness.co.uk/data/browse/index.jsp/labor\\_day\\_sale\\_ideas.pdf](https://crm.allthingsbusiness.co.uk/data/browse/index.jsp/labor_day_sale_ideas.pdf)

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