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PRACTICAL MANUAL

CHEMISTRY

CLASS - XII



NEW N.C.E.R.T. SYLLABUS

Chemistry Practical Manual Class 12 Cbse 2013

**Graeme Abbott, Anne Hume, Bev
Cooper**



Chemistry Practical Manual Class 12 Cbse 2013:

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and handling complicated instruments we are trying to make education easy fun and enjoyable

CUET (UG) 20 Combined Mock Test Papers Science (PCM) Stream (English, Physics, Chemistry, Mathematics, General Test) For 2025 Exam Oswaal Editorial Board, 2024-09-05

The Central Universities Entrance Test CUET UG has emerged as a crucial examination for students aspiring to secure admission into prestigious universities across India. With the competition intensifying each year, thorough preparation and strategic practice have become essential for success. In 2024, The Common University Entrance Test CUET had conducted the assessment test for admission to UG programme across 44 Central Universities at 354 centres in India and at 25 centres abroad. In 2024, nearly 15 lakh candidates registered for the CUET UG Exam. Oswaal Combined Mock Test Papers have been meticulously designed to simulate the syllabus and actual exam pattern issued by the NTA, ensuring that students can practice in an environment similar to the one they will face on the day of the examination. Each test paper covers a wide range of topics carefully aligned with the CUET syllabus, helping students assess their knowledge, hone their problem-solving skills, and improve their time management in the CBT test. A Hybrid mode Pen Paper CBT question paper is divided into four sections. Sections IA and IB contain language-specific questions. Section II comprises domain-related questions, and Section III contains questions on general topics. All questions are MCQ-based. This book of Combined Mock Test Papers for CUET UG aims to provide a comprehensive and well-structured resource for students preparing in various streams, including Commerce, English, Accountancy, Business Studies, Economics, and General Test, Humanities, English, History, Geography, Political Science, and General Test, Science, PCB, PCM, English, Physics, Chemistry, Biology, Mathematics, and General Test. Here's how this book benefits you: 100% updated with the Latest Solved Paper 2024 for unmatched accuracy, relevance, 20 Mock test papers, 4 sets in each subject for extensive practice, 1200 Questions approx for comprehensive coverage, Answer key with explanations to ensure in-depth concept clarity, OMR Sheet simulates the real exam experience. We believe that consistent practice and familiarity with the exam format are key to excelling in CUET UG. By working through these Mock Test Papers, students will not only build a strong foundation in their respective subjects but also develop the confidence needed to tackle the exam with ease. We hope this book serves as a valuable companion in your preparation journey. We wish all aspiring students the very best of luck in their endeavours and future academic pursuits.

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 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
- 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
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 - 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 $\text{Co}(\text{H}_2\text{O})_6^{2+}$ 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

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 As_2S_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 KIO_3 and sodium sulphite Na_2SO_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 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 $\text{Zn} | \text{Zn}^{2+} || \text{Cu}^{2+} | \text{Cu}$ with change in concentration of electrolytes CuSO_4 or 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 Co^{2+} and 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 Preparation of iodoform from ethyl alcohol or acetone
- 2 Preparation of acetanilide in laboratory
- 3 Preparation of β -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 corum illaichi cardamom
- 8 To detect the

presence of adulteration in fat oil and butter 9 To investigate the presence of NO_2 in brinjal

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A Basic Laboratory Techniques

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- 2 Analysis of Cations

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- 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

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Comprehensive Practical Chemistry (Abhilekhan) XII Dr. N.K. Verma, Avinash Ojha, 2008-05-01 **Chemistry Practical Manual** Withers, 1971 **Year 12 Chemistry Practical Workbook** Graeme Abbott, Anne Hume, Bev Cooper, 1998-07-01

EduGorilla's CBSE Class 12th Chemistry Lab Manual | 2024 Edition | A Well Illustrated EduGorilla Prep Experts, **Practical Chemistry (For B.Sc. I, II and III Year Students)** Pandey O.P. & Bajpai D.N. & Giri S., 1972 FOR B Sc I II III YEAR STUDENTS **Chemistry Lab Manual Class XI | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum.** Mr. Rohit Manglik, 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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Table of Contents Chemistry Practical Manual Class 12 Cbse 2013

1. Understanding the eBook Chemistry Practical Manual Class 12 Cbse 2013
 - The Rise of Digital Reading Chemistry Practical Manual Class 12 Cbse 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Practical Manual Class 12 Cbse 2013
 - 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 Chemistry Practical Manual Class 12 Cbse 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Practical Manual Class 12 Cbse 2013
 - Personalized Recommendations

- Chemistry Practical Manual Class 12 Cbse 2013 User Reviews and Ratings
- Chemistry Practical Manual Class 12 Cbse 2013 and Bestseller Lists
- 5. Accessing Chemistry Practical Manual Class 12 Cbse 2013 Free and Paid eBooks
 - Chemistry Practical Manual Class 12 Cbse 2013 Public Domain eBooks
 - Chemistry Practical Manual Class 12 Cbse 2013 eBook Subscription Services
 - Chemistry Practical Manual Class 12 Cbse 2013 Budget-Friendly Options
- 6. Navigating Chemistry Practical Manual Class 12 Cbse 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Chemistry Practical Manual Class 12 Cbse 2013 Compatibility with Devices
 - Chemistry Practical Manual Class 12 Cbse 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry Practical Manual Class 12 Cbse 2013
 - Highlighting and Note-Taking Chemistry Practical Manual Class 12 Cbse 2013
 - Interactive Elements Chemistry Practical Manual Class 12 Cbse 2013
- 8. Staying Engaged with Chemistry Practical Manual Class 12 Cbse 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry Practical Manual Class 12 Cbse 2013
- 9. Balancing eBooks and Physical Books Chemistry Practical Manual Class 12 Cbse 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry Practical Manual Class 12 Cbse 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chemistry Practical Manual Class 12 Cbse 2013
 - Setting Reading Goals Chemistry Practical Manual Class 12 Cbse 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chemistry Practical Manual Class 12 Cbse 2013
 - Fact-Checking eBook Content of Chemistry Practical Manual Class 12 Cbse 2013

- 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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