

APC BOOKS

B Bhushan

# LABORATORY MANUAL CHEMISTRY

(C.B.S.E. Syllabus)

Class XI



AVICHAL PUBLISHING COMPANY

# Class 11 Chemistry Apc Lab Manual

**L Towner**



## **Class 11 Chemistry Apc Lab Manual:**

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

**Chemistry Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **Acp Chem 1172 General Chemistry Lab Manual** Brooks/Cole,2015-11-11 **CHEM 111 Lab Manual General Chemistry** Christofield,2023-06-12 **Chemistry Lab Manual Class XI | follows the latest CBSE syllabus and other State Board following the CBSE Curriculam.** 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 top 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

**Chemistry** Peter T. Wassell,2007-08-18 **The Software Encyclopedia** ,1986 *Chem 111-112* Larry Alan Scheich,Tammy Janine Melton,New Mexico State University. Department of Chemistry and Biochemistry,2002 *Chemistry AP Lab Manual 8E* Steven S. Zumdahl,2009-03-19 **Acp Chem 1171 General Chemistry Lab Manual**

Brooks/Cole,2014-04-25 *Nutrition Abstracts and Reviews* ,1998 **Chemistry 132** Sharyl A. Majorski,2012-08-15 **General Chemistry 1114 Laboratory Manual** Pearson Custom Publishing,2000-08-01 Current Index to Journals in Education ,1977 *Acp General Chemistry Lab Manual - Rose Hulman* Brooks/Cole,2013-05-15 Acp Chm 1132 General Chemistry Lab Manual Brooks/Cole,2016-11-16 *Popular Photography* ,1990-11 **Chemistry Lab Manual**

**Home/Small Christian School Edition (gr. 11)** 129551,BJU Press,2005-02-11 The Lab Manual has experiments to demonstrate and reinforce concepts presented in the textbooks All exercises can be performed either in a minimally supplied home or school lab All chemicals used can be purchased locally Grade 11 Acp General Chemistry Lab Manual - Rose Hulman Institute Of Brooks/Cole,2014-06-04 **Chemistry 131 Laboratory Manual** Sharyl A. Majorski,2011-01-03

The book delves into Class 11 Chemistry Apc Lab Manual. Class 11 Chemistry Apc Lab Manual is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Class 11 Chemistry Apc Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Class 11 Chemistry Apc Lab Manual
- Chapter 2: Essential Elements of Class 11 Chemistry Apc Lab Manual
- Chapter 3: Class 11 Chemistry Apc Lab Manual in Everyday Life
- Chapter 4: Class 11 Chemistry Apc Lab Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Class 11 Chemistry Apc Lab Manual. The first chapter will explore what Class 11 Chemistry Apc Lab Manual is, why Class 11 Chemistry Apc Lab Manual is vital, and how to effectively learn about Class 11 Chemistry Apc Lab Manual.
3. In chapter 2, this book will delve into the foundational concepts of Class 11 Chemistry Apc Lab Manual. This chapter will elucidate the essential principles that need to be understood to grasp Class 11 Chemistry Apc Lab Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Class 11 Chemistry Apc Lab Manual in daily life. This chapter will showcase real-world examples of how Class 11 Chemistry Apc Lab Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Class 11 Chemistry Apc Lab Manual in specific contexts. The fourth chapter will explore how Class 11 Chemistry Apc Lab Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Class 11 Chemistry Apc Lab Manual. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Class 11 Chemistry Apc Lab Manual.

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