

# LABORATORY MANUAL CHEMISTRY

Class XII

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BOOK

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*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  $\text{Al(OH)}_3$
- 5 To prepare colloidal solution of ferric hydroxide  $\text{Fe(OH)}_3$
- 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 trioxalate 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  $\beta$ -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 casein 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 cardamom
- 8 To detect the presence of adulteration in fat oil and butter
- 9 To investigate the presence of  $\text{NO}_2$  in brinjal

Report - Educational Research and Innovations Committee, National Council of Educational Research and Training National Council of Educational Research and Training (India), 1982

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*Practical/Laboratory Manual Biology Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal* Dr. Sunita Bhagia, Megha Bansal, 2020-06-22

**A List of Experiments**

- 1 Study pollen germination on a slide
- 2 Collect and study soil from at least two different sites and study them for texture moisture content pH and water holding capacity Correlate with the kinds of plants found in them
- 3 Collect water from two different water bodies around you and study them for pH clarity and presence of any living organism
- 4 Study the presence of suspended particulate matter in air at two widely different sites
- 5 Study the plant population density by quadrat method
- 6 Study the plant population frequency by quadrat method
- 7 Prepare a temporary mount of onion root tip to study mitosis
- 8 Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch
- 9 Isolate DNA from available plant material such as spinach green pea seeds papaya etc

**B Study observation of the following Spotting**

- 1 Flowers adapted to pollination by different agencies wind insects birds
- 2 Pollen germination on stigma through a permanent slide
- 3 Identification of stages of gamete development i.e. T.S. of

testis and T S of ovary through permanent slides from grasshopper mice 4 Meiosis in onion bud cell or grasshopper testis through permanent slides 5 T S of blastula through permanent slides Mammalian 6 Mendelian inheritance using seeds of different colour sizes of any plant 7 Prepare pedigree charts of any one of the genetic traits such as rolling of tongue blood groups ear lobes widow s peak and colour blindness 8 Controlled pollination emasculation tagging and bagging 9 Common disease causing organisms like Ascaris Entamoeba Plasmodium any fungus causing ringworm through permanent slides or specimens Comment on symptoms of diseases that they cause 10 Two plants and two animals model virtual images found in xeric conditions Comment upon their morphological adaptations 11 Two plants and two animals models virtual images found in aquatic conditions Comment Content EXPERIMENTS 1 To study pollen germination on slide 2 To study the texture moisture content pH and waterHolding Capacity of soils collected from different sites 3 To collect water from different water bodies and study them for pH Clarity and presence of living organisms 4 To study the presence of suspended particulate matter in air at different sites 5 To study plant population density by quadrat method 6 To study plant population frequency by quadrat method 7 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine 8 To study effect of different temperature and three different pH onthe activity of salivary amylase 9 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc SPOTTING 1 Pollination in flowers 2 Pollen germination 3 Slides of mammal tissues 4 Meiosis cell division 5 T S of Blastula 6 Mendel s inheritance laws 7 Pedigree chart 8 Controlled pollination 9 Common disease causing organisms 10 Xerophytic adaptation 11 Aquatic adaptation      **N.I.E. Newsletter**  
,1969      **Essential Problems of Indian Education** Basant P. Lulla,S. K. Murty,1971

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

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- Chapter 4: Laboratory Manual Chemistry Class Xii Ncert in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Laboratory Manual Chemistry Class Xii Ncert. This chapter will summarize the key points that have been discussed throughout the book.
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## **Table of Contents Laboratory Manual Chemistry Class Xii Ncert**

1. Understanding the eBook Laboratory Manual Chemistry Class Xii Ncert
  - The Rise of Digital Reading Laboratory Manual Chemistry Class Xii Ncert
  - Advantages of eBooks Over Traditional Books
2. Identifying Laboratory Manual Chemistry Class Xii Ncert
  - 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 Laboratory Manual Chemistry Class Xii Ncert
  - User-Friendly Interface
4. Exploring eBook Recommendations from Laboratory Manual Chemistry Class Xii Ncert
  - Personalized Recommendations
  - Laboratory Manual Chemistry Class Xii Ncert User Reviews and Ratings
  - Laboratory Manual Chemistry Class Xii Ncert and Bestseller Lists
5. Accessing Laboratory Manual Chemistry Class Xii Ncert Free and Paid eBooks
  - Laboratory Manual Chemistry Class Xii Ncert Public Domain eBooks
  - Laboratory Manual Chemistry Class Xii Ncert eBook Subscription Services
  - Laboratory Manual Chemistry Class Xii Ncert Budget-Friendly Options
6. Navigating Laboratory Manual Chemistry Class Xii Ncert eBook Formats
  - ePub, PDF, MOBI, and More
  - Laboratory Manual Chemistry Class Xii Ncert Compatibility with Devices
  - Laboratory Manual Chemistry Class Xii Ncert Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Laboratory Manual Chemistry Class Xii Ncert
  - Highlighting and Note-Taking Laboratory Manual Chemistry Class Xii Ncert
  - Interactive Elements Laboratory Manual Chemistry Class Xii Ncert

8. Staying Engaged with Laboratory Manual Chemistry Class Xii Ncert
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Laboratory Manual Chemistry Class Xii Ncert
9. Balancing eBooks and Physical Books Laboratory Manual Chemistry Class Xii Ncert
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Laboratory Manual Chemistry Class Xii Ncert
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Laboratory Manual Chemistry Class Xii Ncert
  - Setting Reading Goals Laboratory Manual Chemistry Class Xii Ncert
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Laboratory Manual Chemistry Class Xii Ncert
  - Fact-Checking eBook Content of Laboratory Manual Chemistry Class Xii Ncert
  - 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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