

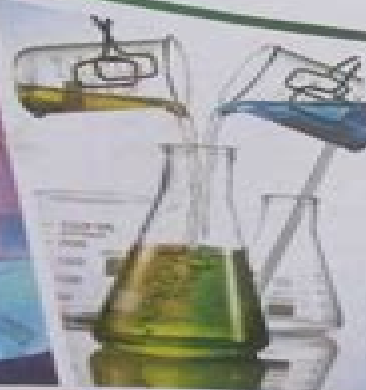


Government of Karnataka

# CHEMISTRY

## PRESCRIBED LABORATORY MANUAL

### I PUC



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PRE UNIVERSITY EDUCATION**  
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# Ncert 1st Puc Lab Manual

**Neena Sinha, R Rangarajan, R P  
Manchanda, R K Gupta, Rajesh Kumar**

## Ncert 1st Puc 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
- 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 Practical/Laboratory Manual Science Class X based on NCERT guidelines by Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia & Er. Meera Goyal Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia ,Er. Meera Goyal, 2020-06-26

Physics 1 To determine the focal length of concave mirror 2 To find the focal length of convex lens by two pin method 3 To find the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed 4 To trace the path of the rays of light through a glass prism 5 To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence 6 To study the dependence of potential difference  $V$  across a resistor on the current  $I$  passing through it and determine its resistance Also plotting a graph between  $V$  and  $I$  7 To determine the equivalent resistance of two resistors when connected in series and parallel

Chemistry 8 To find the pH of the following samples by using pH paper universal indicator 9 To study the properties of a base dil NaOH Solution and Acid HCl by their reaction with a Litmus solution Blue Red b Zinc metal c Solid sodium carbonate 10 To perform and observe the following reactions and to classify them into a Combination reaction b Decomposition reaction c Displacement reaction d Double displacement reaction i Action of water on quick lime ii Action of heat on ferrous sulphate crystals iii Iron nails kept in copper sulphate solution iv Reaction between sodium sulphate and barium chloride solutions 11 To observe the action of Zn Fe Cu and Al on the following salt solutions a  $\text{ZnSO}_4$  aq b  $\text{FeSO}_4$  aq c  $\text{CuSO}_4$  aq d  $\text{Al}_2\text{SO}_4$  3 aq Based on the above result to arrange Zn Fe Cu and Al metals in the decreasing order of reactivity 12 To study the following properties of acetic acid ethanoic acid i Odour ii Solubility in water iii Effect on litmus iv Reaction with sodium hydrogen carbonate 13 To study the comparative cleaning capacity of a sample of soap in soft and hard water

Biology 14 To study stomata by preparing a temporary mount of a leaf peel 15 To show experimentally that carbon dioxide  $\text{CO}_2$  is given out during aerobic respiration 16 To study A Binary fission in Amoeba and B Budding in yeast with the help of prepared slides 17 To identify the different parts of an embryo of a dicot seed pea gram or red kidney beans

*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      **Lab Manual Course 1 ,      Gen. Chem. I** Ron Garber, Nancy Gardner, Chris Brazier, 2014-01-04 Through the experiments in this first semester of general chemistry laboratory manual you will learn about gravity filtration calculating density chemical reactions and titrations The lab manual includes explanations instructions for experiments and report pages to be turned in for grading      **Chemistry 1 Lab Manual C.O.S. ,2016      A and P 1 Lab Manual** Terry Wiseth, 2005-08      *Chemistry Lab Manual* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual      **Science Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual      Lab Manual Latest Edition Dr. J. P. Goel, 2016-12-17 Lab E

Manual Physics For XIIth Practicals A Every student will perform 10 experiments 5 from each section 8 activities 4 from each section during the academic year Two demonstration experiments must be performed by the teacher with participation of students The students will maintain a record of these demonstration experiments B Evaluation Scheme for Practical Examination One experiment from any one section 8 Marks Two activities one from each section 4 4 8 Marks Practical record experiments activities 6 Marks Record of demonstration experiments Viva based on these experiments 3 Marks Viva on experiments activities 5 Marks Total 30 Marks Section A Experiments 1 To determine resistance per cm of a given wire by plotting a graph of potential difference versus current 2 To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material 3 To verify the laws of combination series parallel of resistances using a metre bridge 4 To compare the emf of two given primary cells using potentiometer 5 To determine the internal resistance of given primary cells using potentiometer 6 To determine resistance of a galvanometer by half deflection method and to find its figure of merit 7 To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same 8 To find the frequency of the a c mains with a sonometer Activities 1 To measure the resistance and impedance of an inductor with or without iron core 2 To measure resistance voltage AC DC current AC and check continuity of a given circuit using multimeter 3 To assemble a household circuit comprising three bulbs three on off switches a fuse and a power source 4 To assemble the components of a given electrical circuit 5 To study the variation in potential drop with length of a wire for a steady current 6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram Section B Experiments 1 To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens by plotting graphs between  $u$  and  $v$  or between  $1/u$  and  $1/v$  3 To find the focal length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror 8 To draw the I V characteristic

curve of a p n junction in forward bias and reverse bias 9 To draw the characteristic curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter npn or pnp transistor and to find out the values of current and voltage gains

**Activities**

- 1 To study effect of intensity of light by varying distance of the source on a L D R
- 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items
- 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type transistors iii see the unidirectional flow of current in case of a diode and a LED iv check whether a given electronic component e g diode transistor or I C is in working order
- 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- 5 To observe polarization of light using two Polaroids
- 6 To observe diffraction of light due to a thin slit
- 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using a candle and a screen for different distances of the candle from the lens mirror
- 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

**Suggested Investigatory Projects**

- 1 To investigate whether the energy of a simple pendulum is conserved
- 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum
- 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration
- 4 To compare effectiveness of different materials as insulators of heat
- 5 To determine the wavelengths of laser beam by diffraction
- 6 To study various factors on which the internal resistance emf of a cell depends
- 7 To construct a time switch and study dependence of its time constant on various factors
- 8 To study infrared radiations emitted by different sources using photo transistor
- 9 To compare effectiveness of different materials as absorbers of sound
- 10 To design an automatic traffic signal system using suitable combination of logic gates
- 11 To study luminosity of various electric lamps of different powers and make
- 12 To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve
- 13 To study collision of two balls in two dimensions
- 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit

*GENERAL CHEMISTRY I* STEVEN. ROWLEY, 2024 *Core Science Lab Manual with Practical Skills for Class X V*. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-17 Goyal Brothers Prakashan CHEM 111 Lab Manual General Chemistry Christofield, 2022-06-06 **Chemistry by Observation, Experiment, and Induction** John Iredelle Dillard Hinds, 1905 Laboratory Manual for Introductory Chemistry Charles H. Corwin, 2018-01-05 For lab courses in introductory preparatory and basic chemistry Prepare introductory chemistry students for laboratory and provide a safe experience Emphasizing environmental considerations Corwin's acclaimed Laboratory Manual for Introductory Chemistry offers a proven format of a pre laboratory assignment a stepwise procedure and a post laboratory assignment More than 500 000 students to date in Introductory Chemistry Preparatory Chemistry and Allied Health Chemistry have used these experiments successfully The 7th Edition continues to evolve with increased sensitivity to environmental and safety concerns in the laboratory Recycle icons in the margin of each procedure alert students to recycle chemical waste and green chemical

indicators remind students to use the appropriate waste containers provided to dispose of chemicals Corwin s lab manual can be packaged with any Pearson Intro Prep Chemistry book      *Ps-1* Peter Jeschofnig,2008-09      **Chemistry I : Lab Manual**  
**: Chemical Technology : First Semester, CHE4022** Algonquin College,1999      Integrated Science Course 1 ,2005\*  
**General Chemistry 1 Laboratory** Gray,2023-01-03      *Acp Chem 1172 General Chemistry Lab Manual*  
Brooks/Cole,2015-11-11

This book delves into Ncert 1st Puc Lab Manual. Ncert 1st Puc Lab Manual 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 Ncert 1st Puc Lab Manual, encompassing both the fundamentals and more intricate discussions.

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

- Chapter 1: Introduction to Ncert 1st Puc Lab Manual
- Chapter 2: Essential Elements of Ncert 1st Puc Lab Manual
- Chapter 3: Ncert 1st Puc Lab Manual in Everyday Life
- Chapter 4: Ncert 1st Puc Lab Manual in Specific Contexts
- Chapter 5: Conclusion

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

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### **Ncert 1st Puc Lab Manual Introduction**

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