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Lab Manual

CHEMISTRY

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Anju Rawlley,D. V. Saraf



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Hard Bound Lab Manual Chemistry Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals *Chemistry Lab Manual* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual

Applied Chemistry | AICTE Prescribed Textbook - English Anju Rawley, D. V. Saraf, 2021-11-01 This text book of Applied Chemistry is development as per AICTE model curriculum 2018 for compulsory course on Applied Chemistry of first years Diploma Programme in Engineering and Technology Atomic Structure Chemical Bonding Solution Water Engineering Materials Chemistry of fuels Lubricants and Electrochemistry are the five units of this book comprising of both practicals and theory Some salient features of the book | Course Outcomes and Unit Outcomes are written specifically and are mapped with programme Outcomes | Utmost care have been taken to amalgamate the philosophy of outcome based education | The structure of the textbook is comprehensive where in practical exercises are integral part of each unit | The text is presented in a very simple way with illustrations examples tables flow chart self assessment questions and their solutions | Micro projects points issue for the creative inquisitiveness curiosity know more video links case study and summary points are integral part of each unit to facilitate the students to develop the attitude of scientific inquiry investigate the cause and effect relationship systematic scientific logical thinking ability to observe analyse and interpret | To meet the requirement of outcome based education OBE and outcome based assessment OBA criterion referenced testing CRT have been used as an integral part of assessment in each practical | Sample QR codes have been provided in each units on some topics sub topics for supplementary reading and reinforcing the learning **Lab Manual Science Class 09** Neena Sinha, R. Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce

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Comprehensive Practical Chemistry XII Dr. N . K. Verma, B. K. Vermani, Dr. Neera Verma, K . K. Rehani, 2011-11

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and Industry ,2001 *EduGorilla's CBSE Class 12th Chemistry Lab Manual | 2024 Edition | A Well Illustrated* EduGorilla Prep Experts, 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^{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 *Comprehensive Practical Chemistry (Abhilekhan) XII* Dr. N.K. Verma, Avinash Ojha, 2008-05-01 **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 Al(OH)_3 5 To prepare colloidal solution of ferric hydroxide Fe(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 $\text{M}/10$ 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 NO₂ in brinjal

Lab Manual Science Class 10

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Comprehensive Laboratory Manual in Biology XII Dr. J. P. Sharma, 2011-04-01

Laboratory Manual for Chemistry, 1966

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Mr. Rohit Manglik, Mr. Kaushalesh Dwivedi, 2022-08-04

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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 pHmetry 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

Laboratory Manual of Physical Chemistry Albert W. Davison, Henry S. Van Klooster, 1931

Conceptual Chemistry Volume-I For Class XII S.K. Jain & Shailesh K. Jain, Conceptual Chemistry Volume I For Class XII

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