

LABORATORY MANUAL

Class XI

CHEMISTRY



Ncert Chemistry Lab Manual Class 11

Dr. S. C. Rastogi, ,Er. Meera Goyal



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NCERT Chemistry Class 11 - [CBSE Board] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table Chemistry Class 11 - [Bihar & JAC] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-07-20 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table **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

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CBSE/NCERT Jeev Vigyan - Biology Class - 11

Dr. Sunita Bhagiya ,Megha Bansal,2023-07-16 1 The Living World 2 Classification of Living Beings 3 Plant Kingdom 4 Animal Kingdom 5 Morphology of Flowering Plants 6 Anatomy of Flowering Plants 7 Structural Organization in

Animals 8 Cell Structural and Functional Unit 9 Biomolecules 10 Cell Cycle and Cell Division 11 Transportation in Plants 12 Mineral Nutrition in Plants 13 Photosynthesis in Higher Plants 14 Respiration in Plants 15 Growth and Development in Plants 16 Digestion and Absorption 17 Respiration and Gaseous Exchange 18 Circulation of Body Fluid 19 Excretory Products and their Excretion 20 Locomotion and Movement 21 Nervous Control and Co ordination 22 Chemical Co ordinations and Controlling 22 Latest Model Paper 22 Examinations paper Oswaal CBSE Question Bank Class 10 Science, Chapterwise and Topicwise Solved Papers For Board Exams 2025 Oswaal Editorial Board,2024-01-19 Description of the product 100% Updated Syllabus Fully Solved Board Papers We ve got you covered with the latest and 100% updated curriculum Timed Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics to Study smart not hard Extensive Practice with 2000 Questions Board Marking Scheme Answers Yep you read that right 2000 chances to become a champ Concept Clarity with 500 Concepts 50 Concept Videos to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions because we re on the cutting edge of the coolest educational trends **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 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

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Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11 Oswaal One for All Class 12 English, Physics, Chemistry & Mathematics (Set of 4 books) (For CBSE Board Exam 2024) Oswaal Editorial Board,2023-07-31 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalised NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year's Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions

Report - Educational Research and Innovations Committee, National Council of Educational Research and Training National Council of Educational Research and Training (India),1979

Xam Success Bhautik Vigyan **Physics Class 11** Dr. J. P. Goyal, ,D. C. Upadhyay,Er. Meera Goyal,2023-11-10

Unit I Physical World and Measurement 1 Units and Measurements Unit II Kinematics 2 Motion in a Straight Line 3 Motion in a Plane Unit III Laws of Motion 4 Laws of Motion Unit IV Work Energy and Power 5 Work Energy and Power Unit V Motion of System of Particles and Rigid Body 6 System of Particles and Rotational Motion Unit VI Gravitation 7 Gravitation Unit VII Properties of Bulk Matter 8 Mechanical Properties of Solids 9 Mechanical Properties of Fluids 10 Thermal Properties of Matter Unit VIII Thermodynamics 11 Thermodynamics Unit IX Behaviour of Perfect Gas and Kinetic Theory 12 Kinetic Theory Unit X Oscillations and Waves 13 Oscillations 14 Waves I Log Antilog and other Tables I Value Based Questions VBQ I Chapterwise Objective Type Questions

Jeev Vigyan - Biology Class 11 Dr. Sunita Bhagia, ,Megha Bansal,2023-06-15 1 The Living World 2 Biological Classification 3 Plant Kingdom 4 Animal Kingdom 5 Morphology Of

Flowering Plants 6 Anatomy Of Flowering Plants 7 Structural Organisation In Animals 8 Cell The Unit Of Life 9 Biomolecules
 10 Cell Cycle And Cell Division 11 Transport In Plants 12 Mineral Nutrition in Plants 13 Photosynthesis In Higher Plants 14
 Respiration In Plants 15 Plant Growth And Development 16 Digestion And Absorption 17 Breathing And Exchange Of Gases
 18 Body Fluids And Circulation 19 Excretory Products And Their Elimination 20 Locomotion And Movements 21 Neural
 Control And Coordination 22 Chemical Co ordination And Integration *NEP Jeev vigyan* *बिज्ञान विज्ञान* *Biology Class 11*
Scorer Guru Publications Megha Bansal ,Sunita Bhagiya,2023-11-30 1 The Living World 2 Classification of Living Beings 3
 Plant Kingdom 4 Animal Kingdom 5 Morphology of Flowering Plants 6 Anatomy of Flowering Plants 7 Structural Organization
 in Animals 8 Cell Structural and Functional Unit 9 Biomolecules 10 Cell Cycle and Cell Division 11 Transportation in Plants
 12 Mineral Nutrition in Plants 13 Photosynthesis in Higher Plants 14 Respiration in Plants 15 Growth and Development in
 Plants 16 Digestion and Absorption 17 Respiration and Gaseous Exchange 18 Circulation of Body Fluid 19 Excretory Products
 and their Excretion 20 Locomotion and Movement 21 Nervous Control and Co ordination 22 Chemical Co ordinations and
 Controlling 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
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 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 indicatorl Viva Voce C
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 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 Zn
 Zn^{2+} Cu^{2+} 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
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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 *p*-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 NO₂ in brinjal *Who's who in Finance and Industry*, 2001 **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 **Chemistry Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual *Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines* Dr. S. C. Rastogi, Er. Meera Goyal, 2022-02-25 An Excellent Book in Accordance with the latest syllabus for class XII Prescribed by CBSE NCERT and Adopted by Various State Education Boards 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 As₂S₃ 7 To purify a freshly prepared sol by dialysis 8 To compare the effectiveness of different common

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presence of adulteration in fat oil and butter 9 To investigate the presence of NO₂ in brinjal
Comprehensive Chemistry Activities Vol.I XI Dr. N . K. Verma,2011-12

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