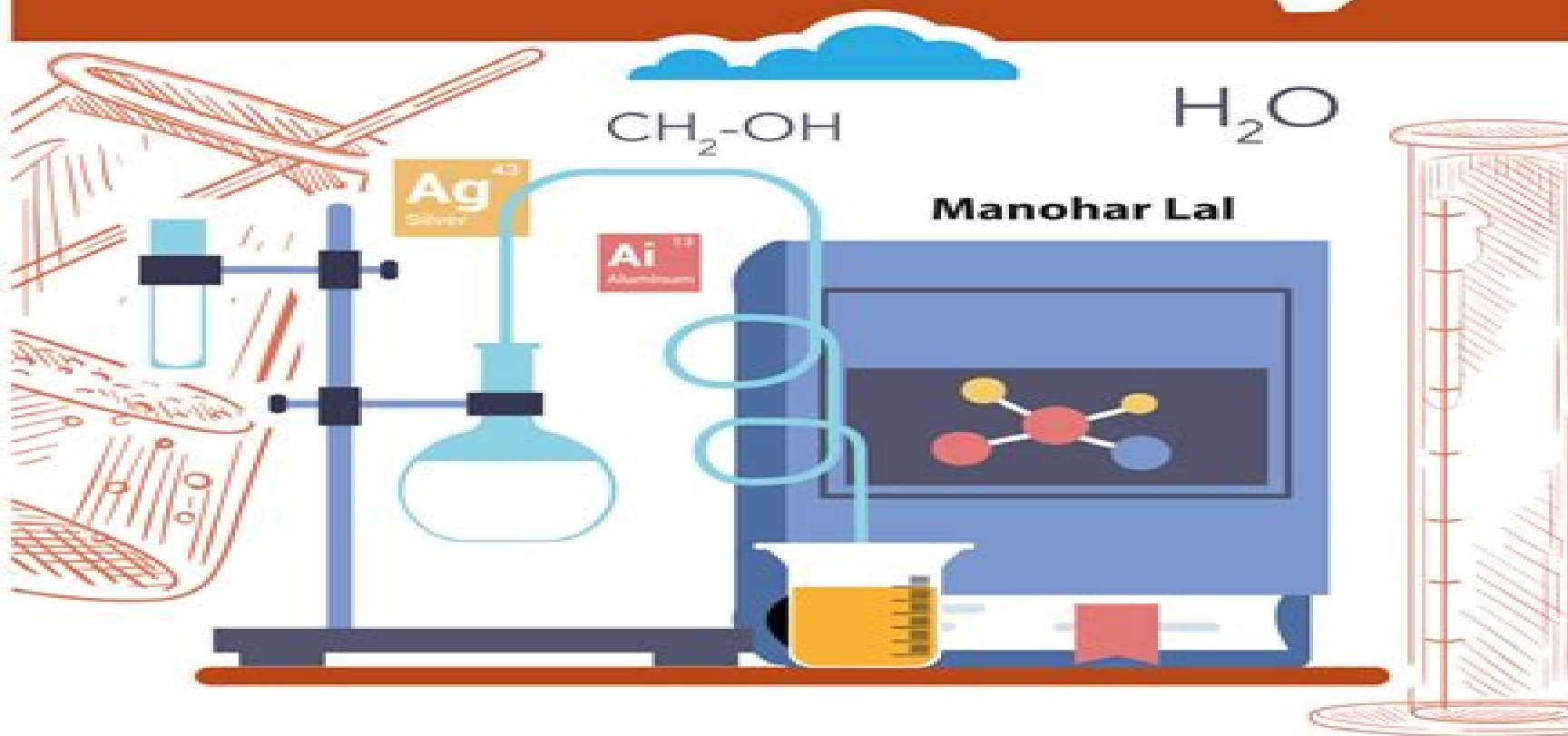


Class XII


LAB MANUAL

Chemistry



Lab Manual Chemistry For Class Xiith

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



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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 trioxalatoferrate(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-nitroacetanilide

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

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Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24 SECTION A EXPERIMENTS 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material 3 To verify the laws of combination Series Parallel of resistance using ammeter bridge 4 To compare the e.m.f. of two given primary cells using potentiometer 5 To determine the internal resistance of a given primary cell e.g. Leclanche cell using potentiometer 6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit 7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same 7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same 8 To find the frequency of AC mains with a sonometer and horse shoe magnet 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 graph between u and v or $1/u$ 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 the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find the refractive index of a liquid by using a convex lens and a plane mirror 8 To draw I V characteristics curve of a p n junction in forward bias and reverse bias 9 To draw the characteristics curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter n p n or p n p transistor and to find out the values of current and voltage gains

SECTION A 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 given circuit using multimeter
- 3 To assemble a household circuit comprising of 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 atleast a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram

SECTION B ACTIVITIES

- 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor
- 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items
- 3 Use a multimeter to i identify the transistor ii distinguish between n p n and p n p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components e g diode transistor or IC 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 polarisation 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 candle and a screen for different distance 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 PROJECT

- 1 To Study Various factors on which the Internal Resistance EMF of a cell depends
- 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R
- 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle
- 4 To design an appropriate logic gate combination for a given truth table
- 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer
- 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids
- 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of coulomb's Law
- 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a c source of adjustable frequency
- 9 To

study the earth's magnetic field using a tangent galvanometer

APPENDIX Some Important Tables of Physical Constants

Logarithmic and other Tables **Chemistry Class - XII - SBPD Publications [2022-23]** Dr. S.C. Rastogi, Er. Meera Goyal, 2022-02-17

- 1 Solid State
- 2 Solutions
- 3 Electro Chemistry
- 4 Chemical Kinetics
- 5 Surface Chemistry
- 6 General Principles And Processes Of Isolation Of Elements
- 7 p Block Elements
- 8 d And f Block Elements
- 9 Coordination Compounds And Organometallics
- 10 Haloalkanes And Haloarenes
- 11 Alcohols Phenols And Ethers
- 12 Aldehydes Ketones And Carboxylic Acids
- 13 Organic Compounds Containing Nitrogen
- 14 Biomolecules
- 15 Polymers
- 16 Chemistry In Everyday Life

Appendix 1

Important Name Reactions And Process

- 2 Some Important Organic Conversion
- 3 Some Important Distinctions

Long Antilog Table

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- 1 Indefinite Integrals
- 2 Definite Integrals
- 3 Applications of Integrals
- 4 Differential Equations
- 5 Applications of Differential Equations
- 6 Vectors
- 7 Scalar or Dot Product of Two Vectors
- 8 Vector or Cross Product of Two Vectors
- 9 Angle between Two Lines
- 10 Straight Line
- 11 The Plane

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VOLUME I UNIT I RELATIONS AND FUNCTIONS

- 1 Relations
- 2 Functions
- 3 Inverse Trigonometric Functions

UNIT II ALGEBRA

- 4 Matrices
- 5 Determinants
- 6 Adjoint and Inverse of a Matrix
- 7 Solution of a System of Linear Equations

UNIT III CALCULUS

- 8 Continuity
- 9 Differentiability
- 10 Differentiation
- 11 Second Order Derivative
- 12 Rolle's Theorem and Lagrange's Mean Value Theorem
- 13 Applications of Derivatives
- 14 Increasing and Decreasing Functions
- 15 Tangent and Normal
- 16 Approximation
- 17 Maxima and Minima

Board Examination Papers

VOLUME II

- 1 Indefinite Integrals
- 2 Definite Integrals
- 3 Applications of Integrals
- 4 Differential Equations
- 5 Applications of Differential Equations
- 6 Vectors
- 7 Scalar or Dot Product of Two Vectors
- 8 Vector or Cross Product of Two Vectors
- 9 Angle between Two Lines
- 10 Straight Line
- 11 The Plane
- 12 Linear Programming
- 13 Multiplication Theorem of Probability
- 14 Theorem of Total Probability and Bayes Theorem
- 15 Random Variable and Probability Distribution
- 16 Bernoulli Trials and

Binomials Distribution Board Examination Papers Biology Class XII - SBPD Publications Megha Bansal, Dr. Sunita Bhagiya, 2021-05-06 Unit I Reproduction 1 Reproduction in Organisms 2 Sexual Reproduction in Flowering Plants Angiosperms 3 Human Reproduction 4 Reproductive Health Unit II Genetics and Evolutions 5 Principles of Inheritance and Variation 6 Molecular Basis of Inheritance 7 Evolution Unit III Biology in Human Welfare 8 Human Health and Diseases 9 Strategies for Enhancement in Food Production 10 Microbes in Human Welfare Unit IV Biotechnology 11 Biotechnology Principles and Processes 12 Biotechnology and its Applications Unit V Ecology and Environment 13 Organisms and Populations 14 Ecosystem 15 Biodiversity and Conservation 16 Environmental Issues Value Based Questions VBQ Board Examination Papers **Chemistry Class XII For Madhya Pradesh Board by Dr. S C Rastogi, Er. Meera Goyal** Dr. S C Rastogi, ,Er. Meera Goyal, 2020-06-17 Syllabus Unit I Solid State Unit II Solutions Unit III Electrochemistry Unit IV Chemical Kinetics Unit V Surface Chemistry Unit VI General Principles and Processes of Isolation of Elements Unit VII p Block Elements Unit VIII d and f Block Elements Unit IX Coordination Compounds Unit X Haloalkanes and Haloarenes Unit XI Alcohols Phenols and Ethers Unit XII Aldehydes Ketones and Carboxylic Acids Unit XIII Organic Compounds Containing Nitrogen Unit XIV Biomolecules Unit XV Polymers Unit XVI Chemistry in Everyday Life Content 1 Solid State 2 Solutions 3 Electro Chemistry 4 Chemical Kinetics 5 Surface Chemistry 6 General Principles And Processes Of Isolation Of Elements 7 P Block Elements 8 D And F Block Elements 9 Coordination Compounds And Organometallics 10 Haloalkanes And Haloarenes 11 Alcohols Phenols And Ethers 12 Aldehydes Ketones And Carboxylic Acids 13 Organic Compounds Containing Nitrogen 14 Biomolecules 15 Polymers 16 Chemistry In Everyday Life Appendix 1 Important Name Reactions And Process 2 Some Important Organic Conversions 3 Some Important Distinctions **Problems and Solutions in Mathematics Class XII - SBPD Publications (English)** Dr. Ram Dev Sharma, ,Er. Meera Goyal, 2021-12-22 1 Relations and Functions 2 Inverse Trigonometric Functions 3 Matrices 4 Determinants 5 Continuity and Differentiability 6 Applications of Derivatives 7 Indefinite Integrals 8 Definite Integrals 9 Applications of Integrals 10 Differential Equations 11 Vectors 12 Three Dimensional Geometry 13 Linear Programming 14 Probability Exam Scorer Science Class - XII - SBPD Publications SBPD Editorial, 2021-11-02 1 Physics 2 Chemistry 3 Biology 4 Mathematics 5 Computer Science 6 Hindi Core 7 English Core **Numerical Physics With Chapterwise Question - Answers Class XII - SBPD Publications** D. C. Upadhyay, ,Dr. J. P. Goel, ,Er. Meera Goyal, 2022-05-17 **Comprehensive Practical Chemistry XII** Dr. N . K. Verma, B. K. Vermani, Dr. Neera Verma, K . K. Rehani, 2011-11 Study Material Based on NCERT English Class- XII Rajamohan Srivastava, ,Amit Ganguli, 2021-10-29 Section A Flamingo Prose and Poetry Flamingo A Prose 1 The Last Lesson Alphonse Daudet 2 Lost Spring Anes Jung 3 Deep Water William Douglas 4 The Rattrap Selma Lagerlof 5 Indigo Louis Fischer 6 Poets and Pancakes Ashokmitran 7 The Interview Christopher Silverster 8 Going Places A P Barton Flaming B Poetry 1 My Mother at sixty Six Kamala Das 2 An Elementary School Classroom in a Slum Stephen Spender 3 Keeping Quiet Pablo Neruda 4 A Thing of Beauty

John Keats 5 A Roadside Stand Robert Frost 6 Aunt Jennifer s Tigers Adrienne Rich Section B Vistas Supplementary Reader 1 The Third Level Jack Finney 2 The Tiger King Kalki 3 Journey to the End of the Earth Tishani Doshi 4 The Enemy Pearl s Buck 5 Should Wizard Hit Mommy John Updike 6 On the Face of it Susan Hill 7 Evans Tries an O Level Colin Dexter 8 Memoreis of Childhood Zitkala Sa and Bama Section C Grammar Reading and Writing 1 Unseen Passage 2 Case Based Factual Passages 3 Advertisement Notice and Poster 4 Writng Invtaiion and Replies 5 Letter Writing 6 Report Writing 7 Article 8 Debate 9 Speech Writing Board Examination Paper *English Class XII - SBPD Publications Jay Bansal, 2021-11-18* Prose 1 Indian Civilization and Culture 2 Bharat is MyHome 3 A Pinch of Snuff 4 I have a Dream 5 Ideas that have Helped Man kind 6 The Artis 7 A Child is Born 8 How free is the Press 9 The Earth 10 India through A Traveller s Eyes 11 A marriage Proposal Poetry 1 Sweetest Love I Do not Goe 2 Song of My self 3 Now the Leaves are Falling Fast 4 ODE To Autumn 5 An Epitaph 6 The Soldier 7 Macavity The Mystery CAT 8 Fire HYMN 9 Snake 10 My Grandmother s House Story of English 1 Old English 2 Middle English 3 Modern English 4 English As a World Language 5 Story of English Drama 6 Story of the Novel in English Composition 1 Precis Writing 2 Comprehension 3 Letters Applications 4 Essay Writing Idioms Phrases 1 Idioms and Phrases Translation 1 Translation Grammar 1 Use of Different Tense forms 2 Transformation of Sentences 3 Reported Speech 4 Modal Auxiliaries 5 Vaise Active Passive 6 Combination of Sentences 7 Preposition Articles Spelling Test Correct Sentences Examination Paper *Oswaal CBSE Question Bank Class 11 Entrepreneurship, Chapterwise and Topicwise Solved Papers For 2025 Exams* Oswaal Editorial Board, 2024-02-03 Description of the product 100% Updated Syllabus Question Typologies We have got you covered with the latest and 100% updated curriculum along with the latest typologies of Questions Timed Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 1000 Questions SAS Questions Sri Aurobindo Society To give you 1000 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions Artificial Intelligence For you to be on the cutting edge of the coolest educational trends Oswaal CBSE Question Bank Class 11 Economics, Chapterwise and Topicwise Solved Papers For 2025 Exams Oswaal Editorial Board, 2024-02-03 Description of the product 100% Updated Syllabus Question Typologies We have got you covered with the latest and 100% updated curriculum along with the latest typologies of Questions Timed Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 1000 Questions SAS Questions Sri Aurobindo Society To give you 1000 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions Artificial Intelligence For you to be on the cutting edge of the coolest educational trends

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