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# CHEMISTRY LAB MANUAL

Class  
**XII**

A Complete Lab Activity Book



## SALIENT FEATURES

- Lab Experiments
- Investigatory Project
- Viva Voce



# Lab Manual For Chemistry For Class 12

**Daniela Niemeyer**



## Lab Manual For Chemistry For Class 12:

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

**EduGorilla's CBSE Class 12th Chemistry Lab Manual | 2024 Edition | A Well Illustrated** EduGorilla Prep Experts,

*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  $\text{Al}(\text{OH})_3$
- 5 To prepare colloidal solution of ferric hydroxide  $\text{Fe}(\text{OH})_3$
- 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 cardamom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO<sub>2</sub> in brinjal

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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

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*Hygienic Physiology* Joel Dorman Steele, 1888

**NCERT English Class 12** Rajamohan Srivastava, Amit Ganguli, 2025-04-20

Section A Flamingo Prose and Poetry Flamingo A Prose 1 The Last Lesson Alphonse Daudet 2 Lost Spring Arundhati Ray 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 Flamingo 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 Memories 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 Writing Invitation and Replies 5 Letter Writing 6 Report Writing 7 Article 8 Debate 9 Speech Writing Board Examination Paper

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Zakir Hussain 3 A Pinch of Snuff Manohar Malgaonkar 4 I Have A Dream Martin Luther King Jr 5 Ideas That Have Helped Mankind Bertrand Russell 6 The Artist Shiga Naoya 7 A Child is Born Germaine Greer 8 How Free is the Press Dorothy L Sayers 9 The Earth H E Bates 10 India Through A Traveller s Eyes Pearl S Buck 11 A Marriage Proposal Anton Chekhov Poetry 1 Sweetest Love I Do not Goe John Donne 2 Song of Myself Walt Whitman 3 Now the Leaves are Falling Fast W H Auden 4 Ode To Autumn John Keats 5 An Epitaph Walter De La Mare 6 The Soldier Rupert Brooke 7 Macavity The Mystery CAT T S Eliot 8 Fire Hymn Keki N Daruwalla 9 Snake D H Lawrence 10 My Grandmother s House Kamala Das 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 Voice Active Passive 6 Analysis 7 Combination of Sentences 8 Preposition Articles Spelling Test Correct Sentences Examination Paper      *Numerical Physics With Chapterwise Question - Answers Class 12 [MP & Chhattisgarh]* Dr. J. P. Goel, ,D. C. Upadhyay, ,Er. Meera Goyal,2023-03-20 UNIT I Electrostatics 1 Electric Charge and Electric Field 2 Gauss Theorem 3 Electric Potential 4 Electric Capacitance UNIT II Current Electricity 5 Electric Conduction and Ohm s law 6 Electric Measurement UNIT III Magnetic Effects of Electric Current And Management 7 Magnetic Effects of Electric Current 8 Magnetism UNIT IV Electromagnetic Induction and Alternating Current 9 Electromagnetic Induction 10 Alternating Current UNIT V Electromagnetic Waves 11 Electromagnetic Waves UNIT VI Optics A Ray Optics And Optical Instruments 12 Reflection And Refraction of Light 13 Refraction of Light at Spherical Surface Lenses 14 Prism and Scattering Of Light 15 Chromatic And Spherical Aberration 16 Optical Instruments UNIT VI Optics B Wave Optics 16 Nature of Light and Huygens s Principle 17 Interference of Light 18 Diffraction of light 20 Polarisation of Light UNIT VII Dual Nature Of Matter And Radiation 21 Particle Nature of Radiation and Waves Nature of Matter UNIT VIII Atoms and Nuclei 22 Atomic Physics 23 X Ray 24 Structure of The Nucleus 25 Nuclear Energy 26 Radio Activity UNIT IX Electronic Devices 27 Semiconductor Diode and Transistor 28 Digital Electronics UNIT X Communication System 29 Principle Communication      *The Cumulative Book Index ,1913      The United States Catalog ,1928      INNOVATIVE SCIENCE TEACHING* RADHA MOHAN,2007-02-07 Science teaching has recently evolved as a blend of conventional methods and modern aids owing to the changing needs and techniques of education This updated Third Edition aims to strike this balance between modern teaching methods and time tested theories All the existing chapters are suitably updated and new chapters on theories of learning teaching models and statistics are included in the text Checklists are provided to help teachers handpick appropriate material from the vast available resources The introductory chapter on statistics should help them interpret and analyze the test scores of their students THIS NEW EDITION FEATURES Four new chapters Statistics for Science Teacher Theories of Learning Models of Teaching and Constructivism in Science Education Updated e learning

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Lab Manual For Chemistry For Class 12: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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### **Lab Manual For Chemistry For Class 12 Introduction**

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