

Solutions Ppt Chemistry

Concise Chemistry class 10 icse solutions SELF-HELP TO ICSE CANDID CHEMISTRY 10 (SOLUTIONS OF EVERGREEN PUB.) *Practical/Laboratory Manual Chemistry Class - XI Comprehensive Chemistry Activities Vol.I XI Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Analytical tables for the use of students of practical chemistry SELF-HELP TO ICSE CANDID CHEMISTRY CLASS 10 (SOLUTIONS OF EVERGREEN PUB.) S. Chand's ICSE Chemistry Book II For Class X (2021 Edition) S. Chand's ICSE CHEMISTRY Book- 2 for Class-X Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal Practical Work for Contemporary A Level Chemistry Courses and the International Baccalaureate Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications) Comprehensive Practical Chemistry XII Chemistry Lab Manual Class XII | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum. Chemistry Lab Manual Class XI | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum. Chemistry All In One Chemistry ICSE Class 10 2021-22 ICSE Class X - Chemistry Sample Paper Book | 12 +1 Sample Paper | According to the latest syllabus prescribed by CISCE Inorganic Chemistry "O" Level Study Guide - Chemistry Quite Easily Done Inorganic Chemistry, Theoretical & Practical, with an Introduction to the Principles of Chemical Analysis Inorganic and Organic Oswaal ICSE Question Bank Class 10 Chemistry Book (For 2023 Exam) Oswaal ICSE Question Bank Class 10 Physics, Chemistry, Math & Biology (Set of 4 Books) (For 2022-23 Exam) Self-Help to CBSE Science Tenth Class Part 2 Chemistry (Solutions of Lakhmir Singh & Manjit Kaur) Oswaal ICSE Physics, Chemistry, Maths & Biology Class 10 Sample Papers + Question Bank (Set of 8 Books) for 2023 Board Exam (based on the latest CISCE/ICSE Specimen Paper) Solutions to Learning Elementary Chemistry for Class 7 Practical and Analytical Chemistry The Science Orbit Chemistry 08 Chemistry 2 Chemistry Lab Manual Concise Chemistry class 9 icse solutions Learning Elementary Chemistry for Class 7 Hard Bound Lab Manual Chemistry Solutions to Learning Elementary Chemistry for Class 8 40 Days Crash Course for JEE Main Chemistry The Science Orbit chemistry 8 Advances Practical Inorganic Chemistry First Outlines of a Dictionary of Solubilities of Chemical Substances First outlines of a dictionary of solubilities of chemical substances Computers in Chemical Education and Research*

Thank you very much for downloading Solutions Ppt Chemistry. Maybe you have knowledge that, people have look numerous times for their favorite readings like this Solutions Ppt Chemistry, but end up in infectious downloads. Rather than enjoying a good book with a cup of tea in the afternoon, instead they are facing with some malicious virus inside their desktop computer.

Solutions Ppt Chemistry is available in our digital library an online access to it is

set as public so you can download it instantly.

Our books collection hosts in multiple countries, allowing you to get the most less latency time to download any of our books like this one.

Merely said, the Solutions Ppt Chemistry is universally compatible with any devices to read

Computers in Chemical Education and Research Jun 30 2019 The impact of computers on all realms of Chemistry has been one of the most important factors in the development of this science during the last years. In recognition of this fact, in 1971, the "First International Conference on Computers in Chemical Research and Education", was held at DeKalb, Illinois, USA. A second Conference took place in Ljubljana, Yugoslavia in 1973 and this third Conference in Caracas, Venezuela, in 1976. The aim of these conferences was to provide a high level forum for the leading researchers to exchange information at the frontiers of present day computer applications to the different fields of Chemistry. The present "Third International Conference on Computers in Chemical Research, Education and Technology", whose proceedings are published in the present volume, was conceived, by means of a series of invited lectures, as a survey of the present-date state of the art in some of the most relevant areas of computer applications in Chemistry.

***Oswaal ICSE Question Bank Class 10 Physics, Chemistry, Math & Biology (Set of 4 Books) (For 2022-23 Exam)* Dec 17 2020** This product covers the following: Strictly as per the Full syllabus for Board 2022-23 Exams Includes Questions of the both - Objective & Subjective Types Questions Chapterwise and Topicwise Revision Notes for in-depth study Modified & Empowered Mind Maps & Mnemonics for quick learning Concept videos for blended learning Previous Years' Board Examination Questions and Marking scheme Answers with detailed explanation to facilitate exam-oriented preparation. Examiners comments & Answering Tips to aid in exam preparation. Includes Topics found Difficult & Suggestions for students. Includes Academically important Questions (AI) Dynamic QR code to keep the students updated for 2023 Exam paper or any further ISC notifications/circulars

***Solutions to Learning Elementary Chemistry for Class 7* Sep 13 2020**

Chemistry 2 Jun 10 2020

***Solutions to Learning Elementary Chemistry for Class 8* Jan 06 2020**

Comprehensive Practical Chemistry XII Oct 27 2021

Oswaal ICSE Physics, Chemistry, Maths & Biology Class 10 Sample Papers + Question Bank (Set of 8 Books) for 2023 Board Exam (based on the latest CISCE/ICSE Specimen Paper) Oct 15 2020 The CISCE ICSE Class 10 Sample Paper Physics, Chemistry, Maths & Biology for 2022-2023 is one of the best ICSE reference books for the class 10 Physics, Chemistry, Maths & Biology board exams. A total of 10 Sample Papers which comprise 5 solved & 5 self-assessment Papers are included in this ICSE specimen Sample Paper Class-10 Physics,

Chemistry, Maths & Biology 2022-23. This best ICSE reference book for class 10 Physics, Chemistry, Maths & Biology board exams is strictly designed as per the latest CISCE ICSE board exam Specimen Paper-2023 to keep the class 10th ICSE students updated and prepared for the CISCE ICSE board exam 2023. The ICSE Class 10 sample Paper Physics, Chemistry, Maths & Biology for 2022-2023 also include the latest solved board specimen paper 2023 which was released in July 2022 to provide ICSE class 10th students with better exam insight and to boost their confidence to score maximum in ICSE board exam 2023. It contain 5-free sample question papers on Oswaal 360 as well. These are one of the best ICSE reference books for class 10 Physics, Chemistry, Maths & Biology board exam as they include On-Tips Notes & Revision Notes for Quick Revision and better concept clarity. The ICSE Class 10 Sample Paper Physics, Chemistry, Maths & Biology for 2022-2023 contain Mind Maps & Mnemonics with 1000+concepts for advanced learning. The ICSE Class 10 Sample Paper Physics, Chemistry, Maths & Biology for 2022-2023 also contain 200+mcqs & Objective Type Questions for optimum preparation and therefore making it the best reference book for class 10 Physics, Chemistry, Maths & Biology . Students will find ample study material and questions in it and therefore will have better exam readiness and conceptual clarity. ICSE Class 10 Sample Paper Physics, Chemistry, Maths & Biology for 2022-2023 will also boost confidence among students while attempting the question paper as enough practice material is provided with this best ICSE reference book for class 10 Physics, Chemistry, Maths & Biology board exams.

Concise Chemistry class 10 icse solutions Nov 08 2022 This book includes the solutions to the questions given in the textbook ICSE Concise Chemistry Class 10 published by Selina Publications and is for March 2022 Examinations.

Oswaal ICSE Question Bank Class 10 Chemistry Book (For 2023 Exam) Jan 18 2021 • CISCE Syllabus:Strictly as per the latest Revised syllabus dated on 21th May 2022 for Board 2023 Exam. • Latest Updates: Some more benefits students get from the revised edition are as follow: Ø Topic wise / Concept wise segregation of chapters Ø Important Key terms for quick recall of the concepts. Ø Practice questions in the chapters for better practice Ø Unit wise Practice papers as per board pattern for self-evaluation. Ø Semester1 Board Papers & Semester II Specimen Papers merged chapter-wise Ø Semester II Board Papers fully solved on top • Revision Notes : Chapter wise and Topic wise for in-depth study • Mind Maps & Mnemonics: (Only PCMB) for quick learning • Self -Assessment Tests for self-preparation. • Concept videos for blended learning • Exam Questions: Previous Years' Examination Questions and Answers with detailed explanation to facilitate exam-oriented preparation. • Examiner's Comments & Answering Tips to aid in exam preparation. • Academically important Questions (AI)look out for highly expected questions for upcoming g exam • ICSE & ISC Marking scheme answers: Previous year's board marking scheme • Toppers answers: Latest Toppers hand written answer sheet. • Reflections at the end of each chapter to get clarity about the expected learning outcomes

Chemistry Lab Manual Class XI | follows the latest CBSE syllabus and other State Board following the CBSE Curriculam. Aug 25 2021 With the NEP 2020 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 top 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.

Learning Elementary Chemistry for Class 7 Mar 08 2020 Goyal Brothers Prakashan

Practical Work for Contemporary A Level Chemistry Courses and the International Baccalaureate Dec 29 2021 This book has been written to provide a useable resource for teachers of KS5 chemistry courses in the school laboratory and in technical colleges where A level, IB or vocational chemistry is taught to post-16 students. It provides a straightforward route into everyday laboratory chemistry courses, while offering modern and contemporary activities such as with polymer preparation and recycling and the use of fuel cells. It is designed to supplement the minimum 'core skills' of some syllabuses.

Hard Bound Lab Manual Chemistry Feb 05 2020 Lab Manuals

Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications) Nov 27 2021 Highly Useful for Various Engineering and Medical Competitive Examinations.

Chemistry Lab Manual Class XII | follows the latest CBSE syllabus and other State Board following the CBSE Curriculam. Sep 25 2021 With the NEP 2020 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 top 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.

The Science Orbit chemistry 8 Nov 03 2019 Well graded and structured, the series provides a body of knowledge, methods, and techniques that characterize science and technology so that students use these efficiently. A conscious attempt has been meeting to help students experience science in varied and interesting ways while actively involving them in their own learning.

Practical and Analytical Chemistry Aug 13 2020

Analytical tables for the use of students of practical chemistry Jun 03 2022

Chemistry Lab Manual May 10 2020 Lab Manual

First outlines of a dictionary of solubilities of chemical substances Aug 01 2019

Concise Chemistry class 9 icse solutions Apr 08 2020 This book includes the solutions to the questions given in the textbook ICSE Concise Chemistry Class 9 published by Selina Publications and is for March 2022 Examinations.

ICSE Class X - Chemistry Sample Paper Book | 12 +1 Sample Paper | According to the latest syllabus prescribed by CISCE May 22 2021 • Best Selling Book in English Edition for Class 10 Chemistry Sample Papers as per the latest syllabus given by the CISCE. • Class 10 Chemistry Sample Papers Preparation Kit comes with 13 Tests (3 SQP-based Sample Papers + 7 SQP-based Self Analysis + 3

Previous Year Paper) with the best quality content. • Class 10 Chemistry Sample Papers Prep Kit includes 2 Most Expected Sample Question Papers (For The Upcoming Exam). • Get high grades in your exam with the help of this book.

SELF-HELP TO ICSE CANDID CHEMISTRY CLASS 10 (SOLUTIONS OF EVERGREEN PUB.) May 02 2022 This E-Book includes the Answers given in the textbook of ICSE Candid Chemistry Class X and is for 2022 Examinations.

"O" Level Study Guide - Chemistry Quite Easily Done Mar 20 2021

Advances Practical Inorganic Chemistry Oct 03 2019

SELF-HELP TO ICSE CANDID CHEMISTRY 10 (SOLUTIONS OF EVERGREEN PUB.) Oct 07 2022 Answers to the Questions of the textbook Candid Chemistry Prescribed by I.C.S.E. Board for Class 10

Self-Help to CBSE Science Tenth Class Part 2 Chemistry (Solutions of Lakhmir Singh & Manjit Kaur) Nov 15 2020 This book includes the answers to the questions given in the textbook CBSE Science Tenth Class Part 2 Chemistry published by S. Chand & Co. and written by Lakhmir Singh and Manjit Kaur. This book is based for latest syllabus.

Inorganic Chemistry Apr 20 2021

Practical/Laboratory Manual Chemistry Class - XI Sep 06 2022

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 (CH₃COOH) 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 (CH₃COO⁻ ion) in case of weak acid (CH₃COOH)
5. To determine the change in pH value of weak base (NH₄OH) in presence of a common ion (NH₄⁺) 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. o 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

The Science Orbit Chemistry 08 Jul 12 2020 The series provides a body of knowledge, methods, and techniques that characterize science and technology so that students use these efficiently. A conscious attempt has been meeting to help students experience science in varied and interesting ways while actively involving them in their own learning.

Comprehensive Chemistry Activities Vol.I XI Aug 05 2022

S. Chand's ICSE Chemistry Book II For Class X (2021 Edition) Apr 01 2022 S. Chand's ICSE Chemistry for Class X is strictly in accordance with the latest syllabus prescribed by the Council for the Indian School Certificate Examinations (CISCE), New Delhi. The book aims at simplifying the content matter and give clarity of concepts, so that the students feel confident about the subject as well as the competitive exams.

S. Chand's ICSE CHEMISTRY Book- 2 for Class-X Feb 28 2022 S. Chand's ICSE Chemistry for Class X is strictly in accordance with the latest syllabus prescribed by the Council for the Indian School Certificate Examinations (CISCE), New Delhi. The book aims at simplifying the content matter and give clarity of concepts, so that the students feel confident about the subject as well as the competitive exams.

First Outlines of a Dictionary of Solubilities of Chemical Substances Sep 01 2019
All In One Chemistry ICSE Class 10 2021-22 Jun 22 2021 1. All in One ICSE self-study guide deals with Class 10 Chemistry 2. It Covers Complete Theory, Practice & Assessment 3. The Guide has been divided in 12 Chapters 4. Complete Study: Focused Theories, Solved Examples, Check points & Summaries 5. Complete Practice: Exam Practice, Chapter Exercise and Challengers are given for practice 6. Complete Assessment: Practical Work, ICSE Latest Specimen Papers & Solved Papers Arihant's 'All in One' is one of the best-selling series in the academic genre

that is skillfully designed to provide Complete Study, Practice and Assessment. With 2021-22 revised edition of "All in One ICSE Chemistry" for class 10, which is designed as per the recently prescribed syllabus. The entire book is categorized under 12 chapters giving complete coverage to the syllabus. Each chapter is well supported with Focused Theories, Solved Examples, Check points & Summaries comprising Complete Study Guidance. While Exam Practice, Chapter Exercise and Challengers are given for the Complete Practice. Lastly, Experiments, Sample and Specimen Papers loaded in the book give a Complete Assessment. Serving as the Self - Study Guide it provides all the explanations and guidance that are needed to study efficiently and succeed in the exam. TOC Periodic Properties and Their Variations, Chemical Bonding, Acids, Bases and Salts, Analytical Chemistry: Uses of Sodium and Ammonium Hydroxides, Mole Concept & Stoichiometry, Electrolysis, Metallurgy, Study of Compounds, General Organic Chemistry, Hydrocarbons, Alcohols, Carboxylic Acids, Explanations to Challengers, Internal Assessment of Practical Work, Sample Questions Papers (1-5), Latest ICSE Specimen Paper, ICSE Solved Paper 2019 & 2020.

Inorganic Chemistry, Theoretical & Practical, with an Introduction to the Principles of Chemical Analysis Inorganic and Organic Feb 16 2021

Chemistry Jul 24 2021 A guide designed to cover the A/AS-level specifications being implemented in schools from September 2000. Many students will take modular exams throughout the course, and these guides will support their revision and exam preparation over the two A-level years (or over a single year for AS level).

40 Days Crash Course for JEE Main Chemistry Dec 05 2019 1. "JEE MAIN in 40 Day" is the Best-Selling series for medical entrance preparations 2. This book deals with Chemistry subject 3. The whole syllabus is divided into day wise learning modules 4. Each day is assigned with 2 exercises; The Foundation Questions & Progressive Questions 5. Unit Tests and Full-Length Mock Test papers for practice 6. JEE Main Solved Papers are provided to understand the paper pattern 7. Free online Papers are given for practice The book 40 Day JEE Main Chemistry serves as a perfect planner in the revision course at whatever level of preparation of the aspirants to accelerate the way to master the whole JEE Main Syllabus. Conceived on the lines of the latest trends of questions, this book divides the syllabus into Daywise learning modules with clear grounding concepts and sufficient practice with Solved and Unsolved Papers. Each day is assigned with two types of exercises; Foundation Question Exercise & Progressive Question Exercises which provide only a good collection of the Best Questions. All Types of Objective Questions are included in Daily Exercise. Apart from exercise, Unit Test & Full Length Mock Tests are given along with all Online Solved Papers of JEE Main 2021; February, March, July & August attempts. This book helps in increasing the level of preparation done by the students and ensures scoring high marks. TOC Preparing JEE Main 2022 Chemistry in 40 Days!, Day 1: Some Basic Concepts of Chemistry, Day 2: States of Matter, Day 3: Atomic Structure, Day 4: Chemical Bonding and Molecular Structure, Day 5: Unit Test 1 (General Chemistry), Day 6: Chemical Thermodynamics, Day 7: Thermochemistry, Day 8: Solutions, Day 9: Physical and Chemical Equilibrium, Day 10: Ionic Equilibrium,

Day 11: Unit Test 2 (Physical Chemistry-I), Day 12: Redox Reactions, Day 13: Electrochemistry, Day 14: Chemical Kinetics, Day 15: Adsorption and Catalysis, Day 16: Colloidal State, Day 17: Unit Test 3 (Physical Chemistry-II), Day 18: Classification and Periodicity of Elements, Day 19: General Principles and Processes of Isolation of Metals, Day 20: Hydrogen Day 21: s-Block Elements, Day 22: p-Block Elements (Group 13 to Group 18), Day 23: The d-and f-Block Elements, Day 24: Coordination Compounds, Day 25 Unit Test 4 (Inorganic Chemistry), Day 26: Environmental Chemistry, Day 27: General Organic Chemistry Day 28: Hydrocarbons, Day 29: Organic Compounds Containing Halogens, Day 30: Organic Compounds Containing Oxygen, Day 31: Organic Compounds Containing Nitrogen, Day 32: Unit Test 5 (Organic Chemistry-I), Day 33: Polymers, Day 34: Biomolecules, Day 35: Chemistry in Everyday Life, Day 36: Analytical Chemistry, Day 37: Unit Test 6 (Organic Chemistry-II), Day 38: Mock Test 1, Day 39: Mock Test 2, Day 40: Mock Test 3, Online JEE Mains Solved Papers 2021.

Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal Jan 30 2022 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 (CH₃COOH) 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 (CH₃COO⁻ ion) in case of weak acid (CH₃COOH), 5. To determine the change in pH value of weak base (NH₄OH) in presence of a common ion (NH₄⁺), (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 $[Co(H_2O)_6]^{2+}$ 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

Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Jul 04 2022 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 ($CuSO_4 \cdot 5H_2O$) 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 $Zn|Zn^{2+}||Cu^{2+}|Cu$, 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 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 *o*-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 caseine 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 (corum), illaichi (cardomom). 8. To detect the presence of adulteration in fat, oil and butter, 9. To investigate the presence of NO₂- in brinjal.