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Experiment no 11.3:

Identify anhydrous salts using
indicator on small test

Material Required:

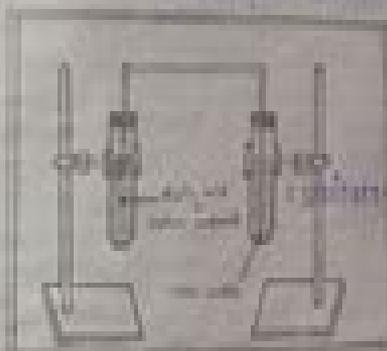
Test tube, test tube holder, test tube rack, beaker, water, anhydrous CuSO_4 , anhydrous NiSO_4 , distilled water, blue color indicator.

Procedure:

1. Take a few drops of anhydrous CuSO_4 in a test tube.
2. Add a few drops of distilled water. Observe the color change in the test tube.
3. Repeat the same with anhydrous NiSO_4 .

Experiment no 11.3: (continued)

Identify anhydrous salts using
indicator on small test



Observation:

1. Add a few drops of anhydrous CuSO_4 in a test tube with the help of a dropper.

2. Repeat your observation.

3. Take about 1ml water in a test tube & add a few drops of anhydrous CuSO_4 . Observe the color change in the test tube.

4. Add a few more drops of anhydrous NiSO_4 water in the second test tube with the help of a dropper.

Repeat your observation.

Result:

CuSO_4 - white to blue

Experiment no 11.4:

Identify the anhydrous and hydrated copper compound
by observing the response
towards heat.

Procedure:

Compound	Result
add anhydrous CuSO_4 in the upper part of a test tube.	color of anhydrous CuSO_4 is white.
add anhydrous CuSO_4 in the lower part of a test tube.	no change in color.

Class 10 Chemistry Practical Lab Cbse

KUNDAN KUMAR



Class 10 Chemistry Practical Lab Cbse:

Practical/Laboratory Manual Science Class X based on NCERT guidelines by Dr. J. P. Goel, Dr. S. C. Rastogi,

Dr. Sunita Bhagia & Er. Meera Goyal Dr. J. P. Goel, Dr. S. C. Rastogi, Dr. Sunita Bhagia, Er. Meera Goyal, 2020-06-26
Physics 1 To determine the focal length of concave mirror 2 To find the focal length of convex lens by two pin method 3 To find the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed 4 To trace the path of the rays of light through a glass prism 5 To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence 6 To study the dependence of potential difference V across a resistor on the current I passing through it and determine its resistance Also plotting a graph between V and I 7 To determine the equivalent resistance of two resistors when connected in series and parallel Chemistry 8 To find the pH of the following samples by using pH paper universal indicator 9 To study the properties of a base dil NaOH Solution and Acid HCl by their reaction with a Litmus solution Blue Red b Zinc metal c Solid sodium carbonate 10 To perform and observe the following reactions and to classify them into a Combination reaction b Decomposition reaction c Displacement reaction d Double displacement reaction i Action of water on quick lime ii Action of heat on ferrous sulphate crystals iii Iron nails kept in copper sulphate solution iv Reaction between sodium sulphate and barium chloride solutions 11 To observe the action of Zn Fe Cu and Al on the following salt solutions a $ZnSO_4(aq)$ b $FeSO_4(aq)$ c $CuSO_4(aq)$ d $Al_2SO_4(aq)$ 3 aq Based on the above result to arrange Zn Fe Cu and Al metals in the decreasing order of reactivity 12 To study the following properties of acetic acid ethanoic acid i Odour ii Solubility in water iii Effect on litmus iv Reaction with sodium hydrogen carbonate 13 To study the comparative cleaning capacity of a sample of soap in soft and hard water Biology 14 To study stomata by preparing a temporary mount of a leaf peel 15 To show experimentally that carbon dioxide CO_2 is given out during aerobic respiration 16 To study A Binary fission in Amoeba and B Budding in yeast with the help of prepared slides 17 To identify the different parts of an embryo of a dicot seed pea gram or red kidney beans **Practical Skills in Science**

Class 10 R.P. Manchanda, Practical Book [Educart CBSE Sample Paper Class 10 2025-26 Science \(Introducing exclusive step-by-step new practice concept on 2026 pattern\)](#) Educart, 2025-09-02 This CBSE Class 10 Science Sample Paper book 2025 26 has been prepared under the guidance of Prasant Kirad Sir ensuring accuracy and exam focused practice for Class 10 students Book Structure 10 Full CBSE Sample Paper Class 10 2025 26 Science with detailed solutions Class 10 Science Chapter wise Practice Papers based on the rationalised syllabus Unit Test Worksheets for self assessment Competency based case based assertion reason questions included How Good are Educart Science Class 10 Sample Papers 100% based on the latest CBSE guidelines and July 30th official class 10 cbse sample papers Covers all typologies of questions that can be asked in the exam Chapter weightage reflected clearly to help students prioritise revision Includes Class 10 Science Previous Year Questions and DIKSHA sourced questions for extra practice Step by step solutions with expert explanations Topper's Corner

highlights common mistakes and last minute exam tips Why Choose this Book The most trusted CBSE Sample Paper series with accurate solutions and exam level practice Designed to give students real exam experience before the boards Perfect for Class 10 students aiming to master CBSE Class 10 Science in one go before the 2026 CBSE Board Exams *Core Science Lab Manual with Practical Skills for Class X* V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-17 Goyal Brothers Prakashan **Teaching Chemistry Around the World** Björn Risch, 2010 As teachers we often tend to expect other countries to teach chemistry in much the same way as we do but educational systems differ widely At Bielefeld University we started a project to analyse the approach to chemical education in different countries from all over the world Teaching Chemistry around the World 25 countries have participated in the project The resulting country studies are presented in this book This book may be seen as a contribution to make the structure of chemistry teaching in numerous countries more transparent and to facilitate communication between these countries Especially in the case of the school subject chemistry which is very unpopular on the one hand and occupies an exceptional position on the other hand due to its relevance to jobs and everyday life and most notably due to its importance for innovation capacity and problem solving we have to learn from each others educational systems **Comprehensive Practical Science IX** S.P. Saxena, Dheeraj Saxena, 2010 Cross Reality and Data Science in Engineering Michael E. Auer, Dominik May, 2020-08-20 Today online technologies are at the core of most fields of engineering and society as a whole This book discusses the fundamentals applications and lessons learned in the field of online and remote engineering virtual instrumentation and other related technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4.0 Cyber Security and M2M Smart Objects Since the first Remote Engineering and Virtual Instrumentation REV conference in 2004 the event has focused on the use of the Internet for engineering tasks as well as the related opportunities and challenges In a globally connected world interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In this context the REV conferences discuss fundamentals applications and experiences in the field of Online and Remote Engineering as well as Virtual Instrumentation Furthermore the conferences focus on guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and open resources This book presents the proceedings of REV2020 on Cross Reality and Data Science in Engineering which was held as the 17th in series of annual events It was organized in cooperation with the Engineering Education Transformations Institute and the Georgia Informatics Institutes for Research and Education and was held at the College of Engineering at the University of Georgia in Athens GA USA from February 26 to 28 2020 **Publisher's Monthly** ,2005 *Academic Practical Science X* Dr. N. K. Sharma, Bishan Lal, 2011-12 **Science Reporter** ,2005 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 $Co(H_2O)_6^{2+}$ 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 - XI Er. Meera Goyal, 2021-05-29

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Viva Voce

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6 Qualitative Analysis

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Analysis of Cations

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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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Comprehensive Experimental Chemistry V. K. Ahluwalia, Sudha Raghav, 1997 This Book Has Been Especially Written For Class Xii Students Under 10 2 Pattern Of Education According To The Syllabi Prescribed By The Cbse And Other States Boards This Book Will Help The Students In Acquiring Correct Skills In Practicals And Various Techniques Of All Laboratory Experiments Salient Features An Introduction To The Book Is Given This Describes The Laboratory Apparatus And Instructions And Precautions For Working In The Laboratory Simple Language And Lucid Style Adequate Number Of Illustrations To Explain And To Clarify The Use Of Various Apparatus Used In The Laboratory Theoretical Aspects Of Each Equipment Have Been Discussed Along With Experiments In Volumetric Analysis Both The Normality And Molarity Concepts Are Made Clear Li In Quantitative Analysis Inorganic And Organic Various Tests Have Been Given In A Systematic Way Specimen Recordings Of Experiments Are Given To Help The Students To Record On Their Notebooks Viva Voice Questions Have Been Included In Each Chapter A Fairly Large Number Of Investigatory Projects Covering Various Topics Are Given Selection Of Projects Is Carefully Made Which Can Be Easily Performed In School Laboratory An Appendix Describing Various Chemical Hobbies Is Given Which Will Be Extremely Helpful To The Students For The Development Of Chemical Hobbies Understanding The Basic Principles Involved And The Chemistry Of Various Hobbies An Appendix Describing Some Typical Chemical Exhibits Is Also Given This Will Help The Students To Participate In The Science Fares Organized By Various Agencies These Experiments Will Cultivate Interest Among The Students For Learning Chemistry An Appendix Each For The Solubility S Of Various Salts Atomic Weights Preparation Of Various Reagents Indicator Papers And The First Aid To Be Administered In Case Of Accidents Is Given The Syllabi Prescribed For Class Xii Students Under 10 2 Pattern Along With Distribution Of Marks Is Also Given Chemistry Lab Manual Class XII Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculam. Edugorilla Prep Experts, 2022-07-05 Chemistry is all about conducting various

experiments and having a deep study about them This deep analysis and study cannot solely be done with theories and practical experiments are necessary for better skill development of the students Considering this every year CBSE conducts the chemistry practicals in addition to the theory examinations This class 12 chemistry lab manual contains all the essential information that the students will require while commencing the practicals CBSE class 12th chemistry lab manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other State Board curriculum All the experiments in this lab manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of related experiments Mr Kaushalesh Dwivedi is the author of this complete lab activity book for class 12 chemistry All the lab based experiments have well labeled diagrams which clearly demonstrate the details of the apparatus that are used the correct way of handling Laboratory apparatus and perform the experiments methodically The basic purpose of this lab manual is to provide the students with appropriate guidance so that they can easily understand carry out and document the experiments in the Science Laboratory The Lab Manual comes with practical lessons followed by Lab experiments after each chapter projects and Notebook for jotting down all the essential information The aim of this Science Lab Manual is to help class 12 students to prepare and understand the complex chemistry concepts through experimental approach by utilizing pedagogically enhanced content of the lab manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities

Lab Sparks: Amazing Physics - Complete Edition for Classes 6-12: The Ultimate Practical Manual | You Can See, Feel & Explore! | 70+ Experiments from Kitchen Science to Electromagnetism | Aligned with NCERT, CBSE & NEP 2020 KUNDAN KUMAR,2025-10-13 The Ultimate Science Adventure Awaits Discover the Magic of Physics with Over 70 Hands On Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Physics Complete Edition the most comprehensive and student friendly practical manual ever created for young scientists in Classes 6 12 Ages 10 18 Whether you re launching balloon rockets or building your own electric motor this book turns abstract physics concepts into real touchable experiences From kitchen science to electromagnetic wonders every experiment is designed to spark curiosity ignite wonder and make learning unforgettable What s Inside 70 Visual Experiments From fire tornadoes to magnetic levitation Step by Step Instructions with emoji based visuals diagrams Real Life Connections See how physics works in daily life Safety Tips Student Reflections after every activity Aligned with NCERT CBSE Syllabus NEP 2020 Guidelines Perfect for Practical Files Science Fairs Project Work Competitive Exam Prep NEET JEE Graded Difficulty Simple Home Experiments Class 6 8 to Advanced Lab Activities Class 9 12 Imagine Watching a fire tornado dance in a jar Making a rainbow with just a mirror and water Building a homopolar motor that spins using only a battery and magnet Feeling sound waves vibrate through the air Lighting a bulb using just a pencil lead Defying gravity with magnetic

levitation This isn't just a lab manual it's a journey from Why to Wow It builds scientific thinking problem solving skills and a lifelong love for the invisible forces that shape our world Perfect For CBSE State Board Students Class 6-12 NEET JEE Mains Aspirants Science Teachers Homeschooling Parents School Practical Files Science Exhibition Projects Gift for Young Scientists Who Love to Explore By Kundan Kumar PGT Chemistry Creator of Short Sweet Chemistry YouTube and Founder of Short Sweet Services Because Physics Isn't Just Formulas It's Energy in Motion Ready to turn ordinary ingredients into extraordinary adventures Let's get started *Comprehensive Practical Chemistry XI* Dr. N. K. Verma, B. K. Vermani, Dr. Neera Verma, 2010-02

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 $CuSO_4 \cdot 5H_2O$ 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 *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 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

Eventually, you will extremely discover a extra experience and success by spending more cash. nevertheless when? reach you give a positive response that you require to get those every needs taking into account having significantly cash? Why dont you try to get something basic in the beginning? Thats something that will lead you to comprehend even more regarding the globe, experience, some places, once history, amusement, and a lot more?

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