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# Chemistry Lab Manual For Class 11

**Neena Sinha, R Rangarajan, R P  
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## **Chemistry Lab Manual For Class 11:**

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**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 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

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funding approval     The Publishers Weekly ,1911     El-Hi Textbooks in Print ,1984     *Chemical Abstracts* ,1927

Chemistry Lab Manual Home/Small Christian School Edition (gr. 11) 129551, BJU Press, 2005-02-11 The Lab Manual has experiments to demonstrate and reinforce concepts presented in the textbooks All exercises can be performed either in a minimally supplied home or school lab All chemicals used can be purchased locally Grade 11     Higher Education: Handbook of Theory and Research Michael B. Paulsen, 2018-04-06 Published annually since 1985 the Handbook series provides a compendium of thorough and integrative literature reviews on a diverse array of topics of interest to the higher education scholarly and policy communities Each chapter provides a comprehensive review of research findings on a selected topic critiques the research literature in terms of its conceptual and methodological rigor and sets forth an agenda for future research intended to advance knowledge on the chosen topic The Handbook focuses on a comprehensive set of central areas of study in higher education that encompasses the salient dimensions of scholarly and policy inquiries undertaken in the international higher education community Each annual volume contains chapters on such diverse topics as research on college students and faculty organization and administration curriculum and instruction policy diversity issues economics and finance history and philosophy community colleges advances in research methodology and more The series is fortunate to have attracted annual contributions from distinguished scholars throughout the world

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oct 16 2023 during world war ii gas masks were sent all over england they were worn everywhere even to sleep in case of surprise attack however the germans didn t attack with gas bombs gas masks have a filter a type of material which lets good air in a modern mask typically is constructed of an elastic polymer in various sizes it is fitted with

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the ww2 replica gas mask box and luggage label is a fantastic exact replica gas mask box that brings history to life this self assembly product is a must have for history buffs and collectors alike measuring 6 4 and delivered flat packed it offers

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the masks were made of black rubber which was very hot and smelly it was difficult to breathe when wearing a gas mask when you breathed in the air was sucked through the filter to take out the gas when you breathed out the whole mask was pushed away from your face to let the air out woman wearing a gas mask

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bottom of box make your own gas mask box how to get started take a large sheet of stiff brown card and draw out the net shown above to the right size mark the middle of the bottom edge of the card and place the centre of line a there continue to draw the rest of the net and carefully cut it out score along the remaining lines as they are folds

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instructions sustainability shipping returns policies contact more 0 card gas masks these gas masks are designed to replicate the type of gas mask civilians used during world war 2 they are predominantly designed to be used by children for dressing up and there is a cardboard gas mask that can be donned for added authenticity

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teach children about evacuees and the second world war with these evacuee labels children can come to school dressed as wartime children wearing the evacuee label around their necks as part of a re enactment of the evacuation of the second world war

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browse a wide selection of ww2 kids gas mask and face coverings available in various fabrics and configurations made by a community of small business owners



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each gas mask was stored in a cardboard box and people were expected to carry their mask with them at all times people could be fined if they were caught in public without their gas masks if you have found this 3d model useful to take a closer look at a second world war gas mask you can explore more 3d models available to support learning

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4 make your own gas mask box 5 make your own national registration identity card 6 make your own ration book 7 make your own evacuee label 8 clothes rationing men and boys 9 government evacuation scheme notice to parents of school children 10 practice your own morale boosting ww2 song 11 a chronology of war

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teach children about evacuees and the second world war with these brilliant printable evacuee gas mask box labels helping them understand wartime events that occurred in an imaginative way it will give them an insight into real life events and keep them engaged in

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a gas mask is a kind of mask that fits over the face area and nose it protects from poison gases and many other hazards in the air during world war ii gas masks were sent all over england they were worn everywhere even to sleep in case of surprise attack however the germans didn't attack with gas bombs

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jan 6 2023 gas masks were issued to children and grown ups in case the nazis unleashed a gas attack on britain your kids might be more familiar with the facts around the world war thanks to the ve day celebrations but here we will focus on what they need to know about gas masks what were gas masks used for every adult and child in britain was given

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history at home with ely museum make during the second world war a gas masks gas mask were issued to everyone including children and babies as a precaution against attack by gas bombs the masks came in cardboard boxes

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gas masks were issued to all children as a precaution against attack by gas bombs the masks came in cardboard boxes with a strap for carrying them on the shoulder children were

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use these evacuee gas mask box labels to teach evacuation ww2 facts ks2 this will help your class learn what children experienced in wartime england teach children about evacuees and the second world war with these brilliant printable evacuee gas mask box labels helping them understand wartime events that occurred in an imaginative way

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there were special gas masks for children and babies against poisonous gas in ww2 this page describes the children s gas mask which was made to look like mickey mouse with a fluttering nose as the child breathed and the babies gas mask which was enclosed and had to be pumped by hand

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they just need to cut fold and stick the template together to assemble the box then stick the printable gas mask box labels on the side and they re all set the resource comes with an immersive ww2 style label to stick on the box once it s been assembled

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