

# LABORATORY MANUAL

Class XI

# CHEMISTRY



# Ncert Chemistry Lab Manual Class 11

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



## **Ncert Chemistry Lab Manual Class 11:**

NCERT Chemistry Class 11 - [CBSE Board] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table      Chemistry Class 11 - [Bihar & JAC] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-07-20 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table      **NCERT Rasayan Vigyan - Chemistry Class -11** Dr. S. C. Rastogi ,Er. Meera Goyal,2023-06-15 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Oxidation Reduction or Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry Appendix I Log Antilog Table I VBQ I HOTS I Latest Model Paper I Examination Paper      **Oswaal CBSE Question Bank Class 10 Science, Chapterwise and Topicwise Solved Papers For Board Exams 2025** Oswaal Editorial Board,2024-01-19 Description of the product 100% Updated Syllabus Fully Solved Board Papers We ve got you covered with the latest and 100% updated curriculum Timed Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics to Study smart not hard Extensive Practice with 2000 Questions Board Marking Scheme Answers Yep you read that right 2000 chances to become a champ Concept Clarity with 500

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**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  $Co^{2+}$  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

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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 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 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 analyse 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 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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web messiah 1 sezon 1 bölüm türkçe altyazılı orijinal dilinde yabancı dizi izle messiah 1 sezon 1 bölüm ücretsiz mobil dizi izle messiah 1 sezon 1 bölüm hakkında yorum yapabilirsiniz

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web messiah michael petroni tarafından yaratılan amerikan gerilim türünde bir dijital platform dizisidir İlk sezon 1 ocak 2020 de netflix te yayınlanan on bölümden oluşuyor 1 2 dizide mehdi dehbi tomer sisley michelle monaghan john ortiz melinda page hamilton stefania lavie owen jane adams sayyid el alami fares

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web dizinin sosyal medyada çok konuşulmuş olması ve 2 sezona açık kapı bırakacak şekilde final yapması da messiah in yayın

hayatının uzun sürebileceğinin sinyallerini veriyordu ancak netflix ten diziyile ilgili şok edici bir karar geldi konusuyla dikkat çeken messiah ilk sezonun ardından netflix tarafından iptal edildi

**messiah İzle türkçe altyazılı dublaj dizi İzle yabancıdizi org** - Aug 31 2023

web messiah dizisini 1080p full hd olarak izle oyuncuların konusu ve tartışmalarıyla bilgi sahibi ol messiah dizisini yabancıdizi org farkıyla hd kalitesinde izle messiah izle yada messiah dizisini incele

**netflix in tartışma yaratıp İzleyicileri İkiye bölen yeni dizisi** - Feb 22 2023

web jan 13 2020 dizinin konusu ilahi bir varlık olduğunu iddia eden al messiah in eva geller adlı bir cia ajanı tarafından takip edilmesi ve araştırılması üzerinedir İlk bölümü 1 Ocak 2020 de yayınlanan messiah in şu an 1 sezonu yayınlandı

**messiah dizi 2020 beyazperde com** - May 28 2023

web may 5 2021 michael petroni dan messiah isimli tv dizisinin başrollerinde mehdi dehbi al messiah michelle monaghan eva geller var messiah isimli dizinin tüm haber ve videolarına bak konu orta doğu da gizemli bir adamın ortaya çıkmasıyla toplum ikiye ayrılır bir kısım mucizeler yaratıyor

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