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**CLASS  
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**Viva Voce**



# Comprehensive Lab Manual Chemistry Class 11 Cbse

**Jesse Yeh**



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Rehani,2011-11      **Comprehensive Chemistry XI** Dr. B. Kapila,S. K. Khanna,2010-11 Comprehensive chemistry according to the new syllabus prescribed by Central Board of Secondary Education CBSE      **Practical/Laboratory Manual**

**Chemistry Class - XI** Er. Meera Goyal,2021-05-29

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  $CH_3COOH$  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  $NH_4^+$  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 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 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

**Comprehensive Practical Chemistry (Abhilekhan) XII** Dr. N.K. Verma, Avinash Ojha, 2008-05-01

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**Chemistry Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual

*EduGorilla's CBSE Class 12th Chemistry Lab Manual | 2024 Edition | A Well Illustrated* EduGorilla Prep Experts, *Laboratory Manual for Principles of General Chemistry, 11th Edition* Beran, 2018-01-26

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