

LABORATORY MANUAL

# Chemistry

## CBSE Class XII



# **Cbse Chemistry Lab Manual Class 12**

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



## **Cbse Chemistry Lab Manual Class 12:**

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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<sub>3</sub>COOH 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<sub>3</sub>COO<sup>-</sup> ion in case of weak acid CH<sub>3</sub>COOH 5 To determine the change in pH value of weak base NH<sub>4</sub>OH in presence of a common ion NH<sub>4</sub><sup>+</sup> 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<sub>2</sub>O 6 2 and Cl<sup>-</sup> 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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**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 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 indicatorI Viva Voce C Thermochemistry 1 Determine the enthalpy of dis solution 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 pottasium trioxlato 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 b 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 casein 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 coriander illaichi cardamom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO<sub>2</sub> in brinjal

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