

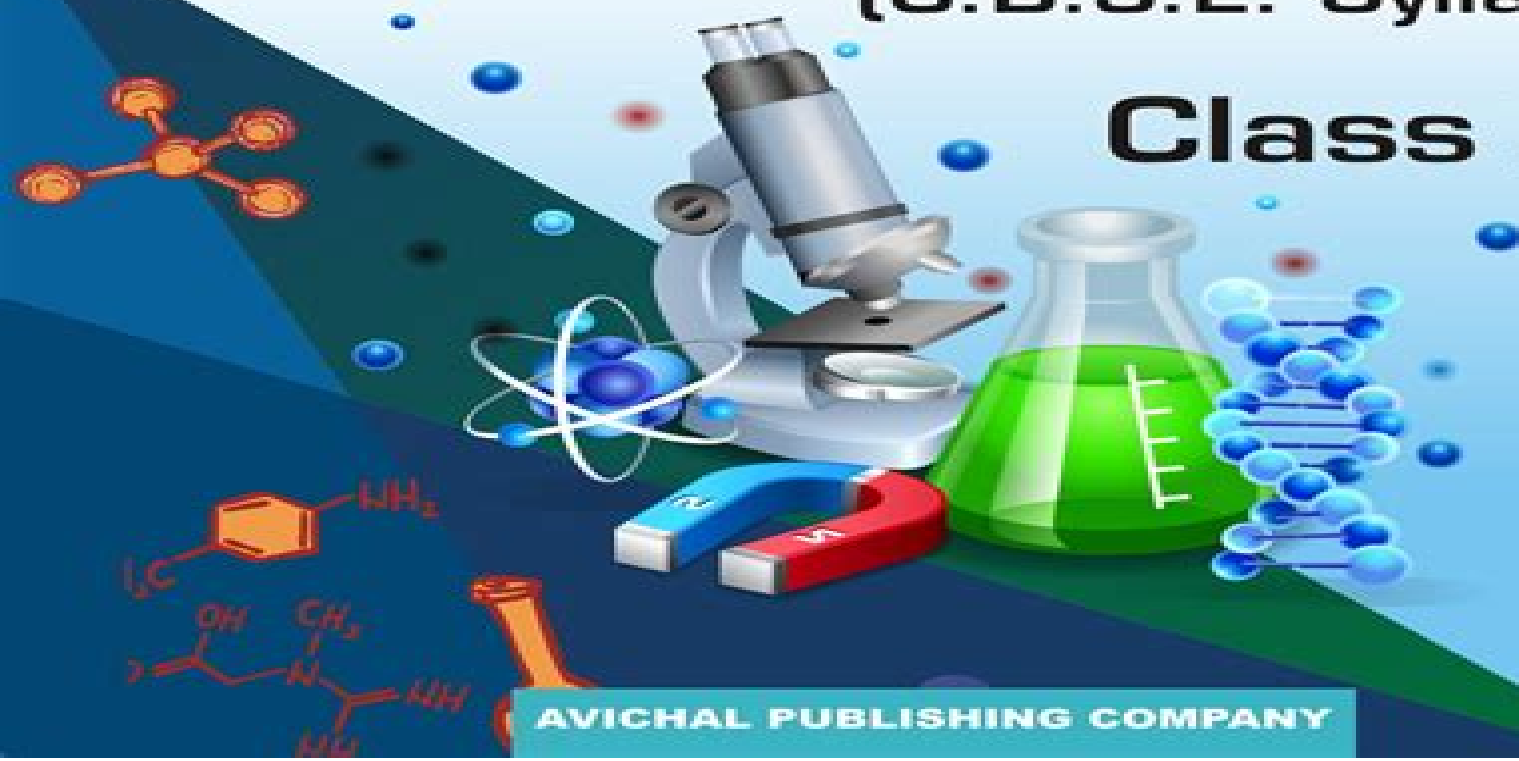
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B Bhushan

LABORATORY MANUAL CHEMISTRY

(C.B.S.E. Syllabus)

Class XI



AVICHAL PUBLISHING COMPANY

Class 11 Chemistry Apc Lab Manual

129551, BJU Press



Class 11 Chemistry Apc Lab Manual:

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

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Chemistry AP Lab Manual 8E Steven S. Zumdahl,2009-03-19 Chemistry 132 Sharyl A. Majorski,2012-08-15 Chem 111-112 Larry Alan Scheich,Tammy Janine Melton,New Mexico State University. Department of Chemistry and Biochemistry,2002 **Chemistry 131 Laboratory Manual** Sharyl A. Majorski,2011-01-03 **General Chemistry Lab Manual** ,2024-12-08 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 **Chem 106 Chemistry in Context 2** Mark A. Griep,2017-01-03 Acp General Chemistry Lab Manual - Rose Hulman Brooks/Cole,2013-05-15 The Software Encyclopedia ,1986

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