

Quantitative Analytical Chemistry Lab Manual

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 (CH₃COOH) 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 (CH₃COO⁻ ion) in case of weak acid (CH₃COOH) 5. To determine the change in pH value of weak base (NH₄OH) in presence of a common ion (NH₄⁺) 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

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and bases on tensile strength of different fibres Viva-Voce Analytical Chemistry and Quantitative Analysis

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By R.A. Day, Jr. and A.L. Underwood

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