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The use of the laboratory is a valuable tool in developing a deeper understanding of key chemical

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concepts from the experimental process. This lab manual encourages scientific thinking, enabling readers to conduct investigations in chemistry. It shows how to think about the processes they are investigating rather than simply performing a

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laboratory experiment to the specifications set by the manual. Each experiment begins with a problem scenario and ends with questions requiring feedback on the problem.

Each experiment in this manual was selected to match topics in your

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textbook and includes an introduction, a procedure, a page of pre-lab exercises about the concepts the lab illustrates, and a report form. Some have a scenario that places the experiment in a real-world context. For this edition, minor updates have been made to

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the lab manual to address some safety concerns.

Practical Problems and Applications

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experiments using Visual
Basic and LabVIEW.

Supplementary instructor
information regarding
necessary supplies,
equipment, and procedures is
provided in an integrated

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manner in the text.

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

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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-

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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

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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

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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

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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

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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

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ions by changing the concentrations of either of the ions 2. To study the shift in equilibrium between $[\text{Co}(\text{H}_2\text{O})_6]^{2+}$ and Cl^- ions by changing the concentrations of either of the ions Viva-Voce 5. Quantitative

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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

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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

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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

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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

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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

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purify water from suspended impurities by using sedimentation 2. To purify water by boiling 3. o purify water by distillation method 4. To purify water by reverse osmosis technique 5. To purify water by GAC

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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-

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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.

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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

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constituent present in them
Viva-Voce 7. Rate of
Evaporation 1. To study the
rate of evaporation of
different liquids 1Viva-Voce
8. Effect of Acids and Bases
on Tensile Strength of
Fibres 1.To compare the

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tensile strength of natural
fibres and synthetic fibres
2.To study the effect of
acids and bases on tensile
strength of different fibres
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