

Contents

	<i>Page</i>
• ACKNOWLEDGEMENTS – Over 1400 Chemistry Teachers Acknowledged	(iii)
• REVIEWS – Around 1000 Reviews from Chemistry Teachers of India	(viii)
• PREFACE & FORWARD	(xxi)
• LATEST SYLLABUS – IN AND AFTER MARCH 2017	(xxii)

CHAPTER

1. MATTER AND ITS COMPOSITION – LAW OF CONSERVATION OF MASS	1
2. STUDY OF GAS LAWS	11
3. ELEMENTS, COMPOUNDS AND MIXTURES	23
4. THE LANGUAGE OF CHEMISTRY	40
5. PHYSICAL AND CHEMICAL CHANGES	53
6. WATER – Water Pollution	70
7. ATOMIC STRUCTURE	93
8. THE PERIODIC TABLE	109
9. STUDY OF THE FIRST ELEMENT – HYDROGEN	123
10. ATMOSPHERIC POLLUTION – Acid Rain, Global Warming, Ozone Depletion	139
PRACTICAL CHEMISTRY	155

ADDITIONAL CHARTS

1. Preparation of Gases	166
2. Definitions, Terms and Processes	168
3. Revision Equations & Practice Equations – Water & Hydrogen	172
4. Important Chemicals and Compounds	176
5. Additional Questions – Name or state the following	177
6. Additional Questions – Select the correct answer	179
7. Additional Questions – Give reasons for the following	181
8. I.C.S.E. board type – Std. IX specimen question paper	183
Reference – Valency Chart	190
Reference – Important Formulas	191
The Modern Periodic Table	192