

# Contents

<i>Chapters</i>	<i>Pages</i>
<b>1. Periodic Table, Periodic Properties and Variations of Properties</b> .....	<b>1 – 20</b>
<b>2. Chemical Bonding</b> .....	<b>21 – 37</b>
<b>3. Acids, Bases and Salts</b> .....	<b>38 – 64</b>
A. Acids and Bases .....	38 – 49
B. Salts and their Laboratory Preparations .....	49 – 59
C. Water of Crystallisation, Efflorescence, Deliquescence .....	59 – 64
<b>4. Analytical Chemistry : Uses of Ammonium Hydroxide and Sodium Hydroxide</b> .....	<b>64 – 70</b>
<b>5. Mole concept and Stoichiometry</b> .....	<b>71 – 102</b>
A. Gay-Lussac's Law and Avogadro's Law .....	71 – 77
B. Relative Atomic Mass, Relative Molecular Mass and Mole Concept .....	77 – 87
C. Percentage Composition, Empirical and Molecular Formulae .....	88 – 93
D. Calculations Based on Chemical Equations .....	93 – 102
<b>6. Electrolysis</b> .....	<b>103 – 121</b>
<b>7. Metallurgy</b> .....	<b>122 – 152</b>
A. Metals and Non-metals .....	122 – 129
B. Study of Activity Series of Metals .....	129 – 134
C. Extraction of Metals Based on the Activity Series .....	134 – 139
D. Aluminium .....	140 – 144
E. Uses of Metals and Alloys .....	145 – 152
<b>8. Study of Compounds — Hydrogen Chloride</b> .....	<b>153 – 162</b>
<b>9. Study of Compounds — Ammonia</b> .....	<b>163 – 176</b>
<b>10. Study of Compounds — Nitric Acid</b> .....	<b>177 – 183</b>
<b>11. Sulphuric Acid</b> .....	<b>184 – 192</b>
<b>12. Organic Chemistry</b> .....	<b>193 – 228</b>
A. Organic Compounds .....	193 – 206
B. Hydrocarbons : Alkanes .....	207 – 212
C. Hydrocarbons : Alkenes .....	213 – 216
D. Hydrocarbons : Alkynes .....	216 – 219
E. Alcohols .....	220 – 223
F. Carboxylic acids .....	223 – 228
<b>13. Practical Work</b> .....	<b>229 – 239</b>
Glossary .....	240 – 245
Revision Equations .....	246 – 256
Test Paper 2015 (Solved) .....	257 – 263
Test Paper 2016 (Solved) .....	264 – 270
Model Paper - 1 .....	271 – 272
Model Paper - 2 .....	273 – 274
Model Paper - 3 .....	275 – 276
Model Paper - 4 .....	277 – 280