
Contents

- Previous Year's Solved Paper

Physics

1. Measurement and Kinematics.....	3
2. Mechanics.....	23
3. Wave Motion and Sound.....	38
4. General Properties of Matter in Bulk State.....	53
5. Heat.....	67
6. Light.....	80
7. Electricity.....	97
8. Electromagnetism.....	111
9. Electron Physics.....	125
10. Radiation and Atomic Physics.....	136
11. Nuclear Structure.....	146

Chemistry

GENERAL CHEMISTRY 1-33

1. Structure of Atom.....	3
2. Chemical Bond.....	8
3. Radioactivity.....	13
4. Electrochemistry.....	17
5. Oxidation and Reduction.....	21
6. Gaseous State of Matter.....	24
7. Volumetric and Qualitative Analysis.....	29

PHYSICAL CHEMISTRY 35-65

1. Chemical Equilibrium.....	37
2. Ionic Equilibrium.....	43
3. Solution.....	49
4. Catalyst.....	55
5. Colloidal-State	58
6. Thermochemistry and Chemical-Thermodynamics.....	61

INORGANIC CHEMISTRY **67–109**

1. Periodic Table and Periodic Properties.....	69
2. Hydrogen and Its Compounds.....	73
3. Alkali-Metals (I A Group Elements).....	77
4. Alkaline Earth Elements (II A Group Elements).....	80
5. III A Group Elements.....	83
6. IV A Group Elements.....	87
7. V A Group Elements.....	91
8. VI A Group Elements.....	96
9. VII A Group Elements.....	99
10. Zero Group Elements (Inert Gases).....	102
11. Transition Elements.....	105

ORGANIC CHEMISTRY **111–180**

1. Purification of Organic Compounds	113
2. Detection and Estimation of Elements.....	116
3. Isomerism.....	119
4. Reaction Mechanism.....	123
5. Classification and Nomenclature of Organic Compounds.....	128
6. Aliphatic Hydrocarbons and Alkyl Halides.....	132
7. Ethers and Alcohols.....	139
8. Aldehydes and Ketones.....	143
9. Carboxylic Acids and their Derivatives.....	147
10. Carbohydrates.....	154
11. Our Food and its Constitution.....	156
12. Aromatic Compounds.....	159
● Assess Yourself.....	166
● Glossary.....	174
● Answers (Assess Yourself).....	180
