

CONTENTS

|  |     |
|--|-----|
| 1 Introduction   | 1   |
| 2 Structure of the Atom  | 16  |
| 3 Paraffins  | 51  |
| 4 Unsaturated hydrocarbons   | 73  |
| 5 halogen derivatives of the paraffins                             | 117 |
| 6 Monohydric alcohols  | 144 |
| 7 Ethers   | 162 |
| 8 Aldehydes and ketones  | 168 |
| 9 Fatty acids  | 199 |
| 10 Tautomerism   | 242 |
| 11 Polyhydric alcohols   | 276 |
| 12 Unsaturated alcohols, ethers, carbonyl compounds and acids      | 294 |
| 13 Nitrogen compounds  | 321 |
| 14 Aliphatic compounds of sulphur, phosphorus, arsenic and silicon | 363 |
| 15 Organo-metallic compounds                                       | 380 |
| 16 Saturated decarboxylic acid                                     | 400 |
| 17 Hydroxyacids Stereochemistry, unsaturated dicarboxylic acids    | 425 |
| 18 Carbohydrates   | 469 |
| 19 Alicyclic compounds   | 499 |
| 20 Simple aromatic hydrocarbons                                    | 533 |
| 21 Aromatic halogen compounds                                      | 587 |
| 22 Aromatic nitro-compounds  | 596 |
| 23 Aromatic amino-compounds  | 609 |
| 24 Diazonium salts and their related compounds                     | 629 |
| 25 Sulphonic acids   | 650 |
| 26 Phenols   | 662 |
| 27 Alcohols, aldehydes, ketones and quinones                       | 688 |
| 28 Aromatic acids  | 720 |
| 29 Polynuclear hydrocarbons and their derivatives                  | 742 |
| 30 Heterocyclic compounds  | 785 |
| 31 Dyes  | 821 |
| Examination questions  | 862 |
| Appendix   | 866 |
| Index  | 875 |

