## CONTENTS

<table>
<thead>
<tr>
<th>Chapter-I</th>
<th>INTRODUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Chemical Kinetics</td>
</tr>
<tr>
<td>1.2</td>
<td>N-Chloro compounds</td>
</tr>
<tr>
<td>1.3</td>
<td>Trichloroisocyanuric acid</td>
</tr>
<tr>
<td>1.4</td>
<td>Oxidation of Alcohols</td>
</tr>
<tr>
<td>1.5</td>
<td>Ruthenium Tetroxide</td>
</tr>
<tr>
<td>1.6</td>
<td>The nature of Ruthenium and Related compounds</td>
</tr>
<tr>
<td>1.7</td>
<td>Literature survey</td>
</tr>
</tbody>
</table>

| Chapter-II | EXPERIMENTAL                                                                 |

<table>
<thead>
<tr>
<th>Chapter-III</th>
<th>RESULTS AND DISCUSSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Effect of concentration of substrate</td>
</tr>
<tr>
<td>3.2</td>
<td>Effect of concentration of oxidant</td>
</tr>
<tr>
<td>3.3</td>
<td>Effect of concentration of catalyst</td>
</tr>
<tr>
<td>3.4</td>
<td>Effect of composition of solvent</td>
</tr>
<tr>
<td>3.5</td>
<td>Effect of variation of temperature</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter-IV</th>
<th>PROBABLE REACTION MECHANISM AND RATE LAW</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Conclusion</td>
</tr>
<tr>
<td></td>
<td>Summary</td>
</tr>
<tr>
<td></td>
<td>Publications</td>
</tr>
</tbody>
</table>