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| Q.3 | a. | How are attacking reagents classified? Explain with examples. | 05 |
| | b. | What are different types of reaction intermediates formed by cleavage of a covalent bond? Explain with examples. | 05 |
| OR | | | |
| Q.3 | a. | Write a note on Carbene. | 05 |
| | b. | Write a note on substitution reaction. | 05 |
| Q.4 | a. | Discuss the Pinacol-Pinacolone reaction. | 05 |
| | b. | Write a note on Friedel-Craft's Reaction. | 05 |
| OR | | | |
| Q.4 | a. | Write a note on types of Rearrangements. | 05 |
| | b. | Write a note on Aldol & Cross Aldol Condensation reaction. | 05 |
| Q.5 | a. | Write a note on NBS. | 05 |
| | b. | Write short note on Aluminum isopropoxide. | 05 |
| OR | | | |
| Q.5 | a. | Write short note on Lead Tetra Acetate. | 05 |
| | b. | Discuss in detail the preparation and role of Osmium Tetra Oxide. | 05 |
| Q.6 | | Write a note on IR spectroscopy and its applications. | 10 |
| OR | | | |
| Q.6 | | Write a note on NMR spectroscopy. | 10 |

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