

35151 : Pharmaceutical Organic Chemistry - I : 3.3

P. Pages : 1

Time : Three Hours

**AW - 2297**

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **Any five** question.
 3. Diagrams and Chemicals equations and structure of organic compound should be given wherever necessary.

1. Discuss in detail about factors affecting electron availability. 12
2. Explain nucleophilic substitution reaction with special emphasis on SN1 Reaction mechanism & stereochemistry. 12
3. Give methods of preparation & Reactions of Alcohols & Ethers. 12
4. Explain Electrophilic Aromatic substitution reaction mechanism with reactivity and orientation. 12
5. Write in detail about Hybridization & types of Hybrid orbitals with example. 12
6. Write Reaction & mechanism of **any two**. 12
 - a) Friedel craft reaction.
 - b) Diel's Alder reaⁿ.
 - c) Oxymercuration-Demercuration.
 - d) Chlorination of methane.
7. Write a note on **any two**. 12
 - a) Aromaticity of Benzene.
 - b) Intermolecular forces.
 - c) Quantum mechanics.
