

Chemistry (H)

C.C-4 : Sem-II

Topics for project (Organic)

- ① Axially chiral molecules. A brief study.
- ② Topicity of ligands and faces : A short discussion.
- ③ HSAB principle : An elaborate discussion
- ④ Tautomerism : An elaborate discussion
- ⑤ primary kinetic isotope effect and its applications
- ⑥ Neighboring group participation : A detailed discussion.
- ⑦ Saytzeff and Hofmann rule regarding elimination reactions
- ⑧ phase transfer catalysis (PTC). A detailed discussion
- ⑨ Nucleophilicity and basicity and their comparisons.
- ⑩ Pyrolytic elimination reactions.
- ⑪ Aliphatic electrophilic substitution reactions
- ⑫ Kinetically controlled and thermodynamically controlled reactions
- ⑬ Free radical substitution reaction. A detailed study
- ⑭ Comparative study between S_N2 and $E2$ mechanism.
- ⑮ Atropisomerism and buttressing effect.
- ⑯ Aliphatic Nucleophilic Substitutions. A brief study
- ⑰ Electrophilic & Nucleophilic catalysis
- ⑱ Cline-Prelog Terminology
- ⑲ configuration and conformation. Their differences
- ⑳ Intramolecular and intermolecular reactions
- ㉑ Relative stability of the conformers in the light of steric and electronic effect
- ㉒ Reaction thermodynamics. The total conception