MSC CHEMISTRY-II SEMESTER-IV

Course: (Elective-IV) Stereochemistry

Note:-attempt all questions.

- Que1. Write details about the molecules with chiral axis and chiral planes.
- Que 2. What do you mean by the term homotopic, enantiotopic and diastreotopic. Explain With giving suitable examples.
- Que3. What is streoselective and streospecific? What is mean by the term optical purity andenantiomeric excess?
- Que4. What is enantioselective synthesis? Write the enantioselective synthesis in a chiral approach of reaction with hydride donor and Hydroboration.
- Que5. Write notes on: (any one)
 - (i) Sharpless epoxidation
 - (ii) Diels Alder selective synthesis
- Que6. What is conformation? What is butane- gauch interaction? Write the conformation of n-butane
- Que7. Write down the chair and boat from of cyclohexane and discuss their relative Stability
- Que8. Write the conformation of cis and trans decalins.
- Que9. Write the stereochemistry of Allenes and Spiranes.
- Que10. Write the stereochemistry of Biphenyls.