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Total No. of Pages : 01

Total No. of Questions : 06

M. Pharmacy (Sem.-1)

**ADVANCED ORGANIC CHEMISTRY-I**

Subject Code : PHCHM-131

M.Code : 70667

Time : 3 Hrs.

Max. Marks : 80

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of SIX questions.
2. Each question carry SIXTEEN marks.

1. Discuss with example enantiotopic and diastereotopic ligands and faces  
Explain the kinetics of First order reactions
2. Differentiate between :
  - a. Conformation and configuration
  - b. Kinetic Vs thermodynamic control
  - c. Homotopic and heterotopic ligand
  - d. Hard and soft acid and bases
3. What is E2 mechanism? Give evidence in support of such mechanism. Predict the nature of products when the following undergoes elimination reaction.
4. Comment on addition of halogens to alkene generation stability and reactivity of carboanions.
5. Name and define different acid base theories. Discuss in detail acid base catalysis
6.
  - a. Explain reactions of organoboranes
  - b. What are carbenes? Discuss the generation and chemical reaction of two types of carbenes

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

