Ref. No.: Ex/PHARM/T/122/2024

## **B. PHARMACY FIRST YEAR SECOND SEMESTER - 2024**

## PHARM. CHEM - I (ORGANIC - I)

Time: Three hours Full Marks: 100

## Answer any five questions

- Discuss Clemmensen Reduction and Dieckman Reaction for the preparation of cycloalkanes.
   Write a short note on Bayer Strain theory of cycloalkanes [10+10]
- Write about the conformation of cyclohexane. Describe the electrophilic substitution reaction of Naphthalene.
- How do you prepare alkanes? Explain with different examples. Write also about the
   conformation of alkanes
- 4. Write about the method of preparation of carboxylic acid and its reaction by taking various examples. [10+10]
- 5. Write short notes on (a) Haworth synthesis of Naphthalene (b) Acidity of carboxylic acid (c) reaction of an alkene with KMnO4 (d) sp3, sp2, sp hybridization of carbon [5x4]
- 6. How do you prepare different alcohols? Discuss common reactions of alcohol with examples.

  [10+10]
- 7. What are diazonium salts? How do you prepare diazonium salts? Discuss its various reactions [4+8+8]