

QP CODE: 112331

Reg. No:.....

First Semester M.pharm Degree Examinations March 2019

M.Pharm (Pharmaceutical Chemistry)

Paper II: Advanced Organic Chemistry I (MPC 102T)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Compare and contrast E_1 and E_2 elimination reactions. Give relevant examples.
2. Explain the types of reaction mechanism and methods of determining them.
3. How do you protect the hydroxyl, carbonyl and amino groups in a given reaction. Explain with relevant examples.

Short Notes

(9x5=45)

4. Sharp less asymmetric epoxidation.
5. Give a strategy for the synthesis of 3 and 4 membered rings.
6. Knorrs pyrazole synthesis
7. Synthesis of mercaptopurine.
8. Carbenes.
9. Rearrangement reactions.
10. Michael addition reaction.
11. Diazomethane reagent.
12. A compound A on Ozonolysis gave equimolar quantities of cyclohexanone and acetone. Give the structure of A.
