

QP CODE: 112331

Reg. No:.....

First Semester M.pharm Degree Examinations April 2018

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. Explain the mechanism and reactivity of E₁ and E₂ reactions
2. Describe the various approaches for protection of functional groups during organic synthesis.
3. Explain the mechanism and synthetic applications of Ugi reaction and Dieckmann reaction.

Short Notes

(9x5=45)

4. Stability and synthetic applications of carbocations
5. Outline the synthesis of imidazole
6. Explain the synthon approach for carbon- halogen disconnections
7. The mechanism and synthetic applications of Sandmeyer reaction.
8. Give the synthetic applications of aluminium isopropoxide and titanium chloride
9. The synthetic route for chloroquine
10. Explain mechanism and stereochemistry of SN² reactions
11. Describe the addition of functional group by synthon approach.
12. Outline the synthesis and medicinal uses of promazine.
