

QP CODE: 212331

Reg. No:.....

Second Semester M.Pharm Degree Examinations July 2019

M.Pharm (Pharmaceutical Chemistry)

Paper II - Advanced Organic Chemistry-II (MPC 202T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Give a brief account of green chemistry. Add a note on superheating effects of microwave and effect of solvents in microwave assisted organic synthesis.
2. Discuss in detail the theory and applications of phase transfer catalysis
3. Discuss in detail the principles of peptide synthesis using BOC and FMOC protocols

Short Notes

(9x5=45)

4. Photo oxidation reactions of organic compounds.
5. Applications of stereo selective synthesis with examples.
6. Zeigler-Natta catalysts.
7. Working principle and advantages of continuous flow reactions.
8. Homogenous and heterogeneous catalysis with their advantages and limitations.
9. Add a note on synthetic applications of microwaves and ultra sound in organic reactions.
10. Sigmatropic rearrangement reaction with an example.
11. Cahn- Ingold- Prelog system of R/S nomenclature.
12. Asymmetric synthesis involving chiral auxiliary approach
