

QP CODE: 214331

Reg. No:.....

**Second Semester M.Pharm Degree Supplementary Examinations
January 2019**

M.Pharm (Pharmaceutical Chemistry)

Paper IV - Pharmaceutical Process Chemistry (MPC 204T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain in detail aromatic nitration
2. Explain the unit process in metal hydride reduction
3. Discuss about the types of evaporators and factors affecting evaporation

Short Notes

(9x5=45)

4. General methods of preparation of polymorphs
5. Explain counter current extraction
6. Process equipment for technical nitration
7. Nonmetallic oxidizing agents
8. Production of penicillin
9. Crystallization from aqueous and nonaqueous solutions
10. MSDS
11. Explain OHSAS 1800
12. Type of oxidative reactions
