

QP CODE: 214331

Reg. No:.....

Second Semester M.Pharm Degree Examinations July 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 the theory of filtration. Add a note on pressure and vacuum filtration, centrifugal filtration.
2. Explain in detail about catalytic hydrogenation and case study on industrial reduction process in the manufacture of API's.
3. Discuss in detail the stages of scale up process

Short Notes

(9x5=45)

4. Enumerate the factors affecting crystallization. Add a note on nucleation.
5. Impurities in API's, types and their sources including genotoxic impurities.
6. Azeotropic distillation
7. Production of penicillin
8. Different types of evaporators and factors affecting evaporation.
9. Cost effective routes and families of reagents useful for scale up.
10. Counter current extraction
11. Nonmetallic oxidizing agents.
12. MSDS
