M.Pharm (Pharmaceutical Chemistry) Paper IV - Pharmaceutical Process Chemistry (MPC 204T) (Common for 2017 and 2019 Scheme)

Time: 3 Hours

- Answer all questions to the point neatly and legibly
 Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays

- 1. Explain the types of impurities and their sources including genotoxic impurities in API.
- 2. Explain the factors affecting crystallization and nucleation.
- 3. Explain the aerobic and anaerobic fermentation.

Short Notes

- 4. Explain the need of material safety data sheet.
- 5. Explain steam distillation with a neat diagram.
- 6. Explain the production of statins.
- 7. Nonmetallic oxidizing agents.
- 8. Write about environmental management system.
- 9. Explain the different effluents and its management system.
- 10. Discuss catalytic halogenation with an example.
- 11. Classify different types of oxidative reactions.
- 12. Discuss validation of large scale process.

Reg. No:....

(3x10=30)

(9x5=45)

Total Marks: 75