

FACULTY OF PHARMACY**M. Pharmacy (Pharmaceutical Chemistry) II-Semester (PCI) (Main) Examination,****August 2018****Subject: Pharmaceutical Process Chemistry****Time: 3 Hrs****Max. Marks: 75****Note: Answer any five questions. All questions carry equal marks.**

1. a) Discuss the synthetic strategies in Scale up Process
b) Write the validation of Large scale Process (7+8)
2. a) Explain the Theory of filtration and its limitations
b) Discuss the factors affecting Crystallization (9+6)
3. a) Write the kinetics and Mechanism of aromatic nitration.
b) Discuss the different oxidizing agents used in oxidation
4. a) Discuss the production of penicillin by Fermentation
b) Write a note on streamlining reaction steps and rte of selection in reaction progress kinetic analysis. (7+8)
5. a) Write a detail note on OHSAS – 18000
b) Write abt fire hazards and types of fire and fire extinguishers (8+7)
6. a) Give a note on Impurities in API (Srces, Types including genotoxic impurities) (7+8)
b) Write abt Effluent Management system in Industries.
7. a) Discuss abt the types of evaporators used in evaporation
b) Write the Case study on Industrial Halogenation (8+7)
8. a) Write the Importance of ISO-14001 in Industrial Safety
b) Explain abt azeotropic distillation (9+6)
