

FACULTY OF PHARMACY

**M. Pharmacy (Pharm. Chemistry) II-Semester (PCI) (Suppl.) Examination,
January 2020**

Subject: Pharmaceutical Process Chemistry

Time: 3 Hrs

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks.

- 1 (a) Explain in detail validation of Large scale process. (7)
(b) Write the types and srces of impurities in API. (8)
- 2 (a) Write a note on types of extraction. (8)
(b) Discuss the factors affecting the evaporation. (7)
- 3 (a) Write the kinetics and mechanism of aromatic nitration. (8)
(b) Write a note on types of oxidation reaction and oxidizing agents. (7)
- 4 (a) Explain the production of statins. (7)
(b) Discuss the case study on Industrial reduction process. (8)
- 5 (a) Write a detail note on MSDS. (8)
(b) Discuss abt effluents and management system in industries. (7)
- 6 (a) Explain the kinetics of halogenations reaction. (6)
(b) Write abt hazards labels of chemicals and personal protection equipment. (9)
- 7 (a) Discuss abt cost effective rtes, reagents selection and families to reagents useful for scale-up. (8)
(b) Explain hydrogen transfer reactions in reduction. (7)
- 8 (a) Write the importance of OHSAS. (8)
(b) Explain the production of streptomycin by fermentation. (7)
