

M.Pharm. Second Semester (Pharmaceutical Chemistry) (New)
35354 : Pharmaceutical Process Chemistry : MPC 204 T

P. Pages : 1

Time : Three Hours



AU - 0771

Max. Marks : 75

- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Diagrams and Chemicals equations should be given wherever necessary.
 4. Discuss the reaction, mechanism wherever necessary.

1. What do you understand by Industrial halogenation process. Write in details about diff types of halogenation. 15
2. Write in detail about crystallization explain factor affecting crystallization & nucleation. 15
3. Explain in detail in process control & validation of large scale process. Write a note on different source of impurity including genotoxic impurity. 15
4. What do you understand by fire hazards explain types of fire & extinguishers. 15
5. What are different types of oxidative reaction. Explain in details Nonmetallic oxidizing agents. 15
6. Write in detail theory of filtration & explain centrifugal filtration. 15
7. Write a note on **any three**. 15
 - a) Fermentation of Antibiotics.
 - b) Ozonolysis
 - c) MSDS (material safety data sheet)
 - d) Catalytic hydrogenation.
