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Total No. of Pages : 01

Total No. of Questions : 06

M.Pharma(Pharmaceutical Chemistry) (2017 &amp; Onwards) (Sem.-2)

**PHARMACEUTICAL PROCESS CHEMISTRY**

Subject Code : MPC-204T

M.Code : 74958

Time : 3 Hrs.

Max. Marks: 75

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. Elaborate briefly on bench, pilot and large scale process. 15
2. a) Explain the types of evaporators and factors affecting evaporators. 10  
b) Write down the theory of filtration and explain the centrifugal filtration. 5
3. Write short notes on the following :  $3 \times 5 = 15$ 
  - a) Kinetics of halogenations.
  - b) Liquid phase oxidation with oxidizing agents.
  - c) Personal protection equipment.
4. a) Enumerate the reaction progress kinetic analysis including the characteristics of cost effective routes and reagent selection in details. 10  
b) Discuss the effluents and its management. 5
5. Write briefly on the following :  $3 \times 5 = 15$ 
  - a) Aerobic and anaerobic fermentation.
  - b) Counter current extraction.
  - c) Hazard labels of chemicals.
6. a) Discuss elaborately about the process equipment for technical nitration. 10  
b) Describe the production of Lovastatin. 5

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

