

Roll No. 

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Total No. of Pages : 1

Total No. of Questions : 06

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

**PHARMACEUTICAL PROCESS CHEMISTRY**

Subject Code : MPC-204T

Paper ID : [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.

- Q1 Discuss in detail various stages of different scale up processes. Discuss the validation of large scale process. (15)
- Q2 a) Differentiate between pressure and centrifugal filtration. (5)
- b) What do you understand by crystallization? Comment upon the crystallization from aqueous and non aqueous solvents. (10)
- Q3 Write short notes on :
- a) Nitrating agents. (5)
- b) Catalytic halogenations. (5)
- c) Ozonolysis. (5)
- Q4 Comment upon :
- a) Hydrogen transfer reactions. (5)
- b) Production of statins. (5)
- c) Aerobic and anaerobic fermentation. (5)
- Q5 Explain basic principle of fire. Classify fire and Comment on various methods utilized for prevention of fire spread. (15)
- Q6 a) What is an impurity? Discuss its types on the basis of origin and chemical nature. Give examples. (8)
- b) Discuss various methods to separate azeotropic mixtures. (7)