

**QP Code: 107327**

**Reg No: .....**

**First Year M.Pharm Degree Supplementary Examinations– March 2015**

**(2011 Scheme)**

**(Pharmaceutics)**

**Paper III – Industrial Pharmacy**

**Time: 3 hrs**

**Maximum Marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(2x20 =40)**

1. Discuss the pilot plant scale up technique for solid dosage forms.
2. What is process validation. State and explain its different aspects.

**Short Essays:**

**(6x10=60)**

3. Explain material management in pharmaceutical industry.
4. Explain the GMP specifications with respect to premises and equipments.
5. Explain the manufacture of citric acid by fermentation
6. Explain the importance of stability studies in dosage form design.
7. Explain the pharmaceutical applications of different types of polymers
8. Explain the Lagrangian method of optimization.

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