

QP Code: 107327

Reg No:

First Year M.Pharm Degree Examinations – September 2013

(2011 Scheme)

(Pharmaceutics)

Paper III – Industrial Pharmacy

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20 =40)

1. Describe fermentation. Explain how different parameters are controlled with reference to the production and recovery of penicillin
2. Discuss concepts about pilot plant scale-up techniques for a liquid oral manufacturing unit.

Short Essays:

(6x10=60)

3. Discuss a protocol for accelerated stability testing of tablets as per ICH guidelines
4. Explain the salient features of ISO 9000 series
5. Discuss intellectual property rights in pharmaceuticals
6. Explain how fire accidents are handled in pharmaceutical industry
7. Elaborate modern inventory management systems
8. Explain the pharmaceutical significance of factorial design and ANOVA test.
