

**QP Code: 107327**

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

**First Year M.Pharm Degree Examinations- February 2013**

**(2011 Admn- New Scheme)**

**(Pharmaceutics)**

**Paper III – Industrial Pharmacy**

**Time: 3 hrs**

**Maximum Marks: 100**

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

**Essays:**

**(2x20 =40)**

1. Explain in detail the significance of stability testing of pharmaceuticals. What do you mean by shelf life of a formulation. How do you arrive at the figure for addition of overages.
2. Discuss in detail cGMP considerations in manufacture, packaging, premises and warehousing of injection formulations.

**Short Essays:**

**(6x10=60)**

3. Explain classical optimization.
4. Discuss the hazards due to mechanical and electrical equipments and precautions to be taken.
5. What are costs in inventories. Discuss inventory evaluation.
6. Explain the manufacture of tetracyclines by fermentations
7. Explain the salient features of ISO 9000 series.
8. Explain patent laws; content format and specific requirements.

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