

[LE 341]

APRIL 2014

Sub. Code: 2902

**M.PHARM. DEGREE EXAMS  
FIRST YEAR  
BRANCH I – PHARMACEUTICS  
PAPER II – INDUSTRIAL PHARMACY  
*Q.P. Code : 262902***

**Time : 3 hours**

**Maximum : 100 marks**

**I. Elaborate on :**

**(2x20=40)**

1. Write the significance of pilot plant scale up study.  
Discuss about the large scale manufacturing techniques of tablets & liquid orals.
2. Explain the methods to find out degradation pathways. Write in detail about determination of shelf life by accelerated stability testing.

**II. Write notes on :**

**(10x6=60)**

1. Techniques for the study of inventory management.
2. Importance of solubilization and surfactants in preformulation studies.
3. Measurement of compressional forces within the powder mass undergoing compression.
4. Explain the optimization methods.
5. Sterilization of blood products.
6. Effect of particle size, moisture content and lubrication on strength of tablet.
7. Selection and evaluation of packaging materials.
8. Industrial hazards and preventive measures due to fire accident.
9. Process validation.
10. GATT and TRIPS.

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