

[LL 341]

OCTOBER 2017

Sub. Code: 2902

**M.PHARM. DEGREE EXAMINATION  
FIRST YEAR  
BRANCH I – PHARMACEUTICS  
PAPER II – INDUSTRIAL PHARMACY**

*Q.P. Code: 262902*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain in detail about the significance of pilot plant scale up study and large scale manufacturing techniques of liquid orals and ophthalmic products.
2. Define pharmaceutical packaging. What are desirable features of packaging materials and discuss about glass as packaging materials?

**II. Write notes on:**

**(10 x 6 = 60)**

1. Industrial hazards and preventive measures due to mechanical equipments.
2. World Trade Organization.
3. Inventory management in pharma industry.
4. Effect of moisture content and lubrication on strength of tablets.
5. Sterilization method for Large Volume of Parenteral Dosage forms (LVP).
6. Classical optimization.
7. Determination of shelf life by accelerated stability testing.
8. Surfactants and its importance.
9. Objectives and defects in tablet coating.
10. Quality assurance.

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