

[LF 341]

OCTOBER 2014

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. What is the pharmaceutical packaging and what are the desirable features of packaging materials? Discuss about Rubber as a packaging material.
2. Discuss about the pilot plant scale up techniques of ophthalmic products.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Particle size in preformulation
2. Surfactants and its importance
3. WTO
4. Classical optimization
5. Sterilization of blood products
6. Method to find out degradation pathways
7. ISO 9000 series
8. Inventory management
9. Multivitamin products
10. Industrial hazards and preventive measures due to electrical equipments.

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