

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 341]

OCTOBER 2018

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. a) Explain production planning and control in Pharmaceutical Industry.  
b) Explain in detail about physicochemical factors affecting stability of drugs.
2. Explain the role of various physiochemical characteristics of a new drug molecule in pre-formulation studies.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Material management in Pharma Industry.
2. Significance of pilot plant scale up study.
3. Overages and ICH guidelines.
4. Trade related Intellectual Property Rights (TRIPS).
5. Objective and functions of World Trade Organization.
6. Physics of tablet compression.
7. Closures used in Pharmaceutical packaging.
8. Describe briefly search method used in optimization.
9. GMP.
10. Generalized Agreement on Tariff and Trade (GATT).

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