

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

[LP 341]

OCTOBER 2019

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 multiple emulsion and multivitamin products.
2. Explain the role of various physicochemical characteristics of new drug molecule in pre-formulation studies.

II. Write notes on:

(10 x 6 = 60)

1. Industrial hazards and preventive measures due to fire accidents.
2. World Trade organization.
3. ISO 9000 series.
4. Physics of tablet compression.
5. Sterilization of blood products.
6. Concept of optimization.
7. Quality assurance.
8. Packaging of glass containers including its merits and demerits.
9. Pilot plant scale up techniques for capsules.
10. Formulation of dry syrup with examples.
