

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

(LM 4259)

FEBRUARY 2018

Sub. Code: 4259

**B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER IV – PHARMACEUTICAL TECHNOLOGY**

Q.P. Code: 564259

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe the construction, working principle, efficiency, merits and demerits of Fractional Distillation.
2. a) Explain the principle, construction, working of Krystal crystallizer.
b) Write in detail about factors affecting caking of Crystals.

II. Write notes on:

(8 x 5 = 40)

1. Factors influencing evaporation.
2. Solubility curve.
3. Materials used for plant construction.
4. Fourier's law and its application.
5. Theories of filtration.
6. Super centrifuge.
7. Fluidized bed dryer.
8. Humidity chart and its uses.

III. Short answers on:

(10 x 2 = 20)

1. Dew point.
2. Types of sieves.
3. Refrigeration load.
4. Manometer.
5. Equilibrium moisture content.
6. Volatility and relative volatility.
7. Lyophilization.
8. Radiation.
9. Turbulent Flow.
10. Raoult's Law.
