

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

[BPHARM 1022]

**OCTOBER 2022
(AUGUST 2022 EXAM SESSION)**

Sub. Code: 4259

**B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
SECOND YEAR (Regulation 2009-2010)
PAPER IV – PHARMACEUTICAL TECHNOLOGY**

Q.P. Code: 564259

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Derive Bernoulli's equation and add a note on its assumptions.
2. Describe the principle, construction, working, application, merits and demerits of Freeze drier.

II. Write notes on:

(8 x 5 = 40)

1. Explain the construction and working of silverson mixer emulsifier.
2. Draw a neat labelled diagram of floating head two pass heater and explain its working.
3. Write a note on principle and working of sieve shaker.
4. Write in detail about the Swenson walker crystallizer.
5. Explain the construction and working of Fluidised bed dryer.
6. Describe the principle and working of hammer mill.
7. Explain the principle and working of drum dryer.
8. Write about construction and working of perforated basket centrifuge.

III. Short answers on:

(10 x 2 = 20)

1. What is centrifugation?
2. Define corrosion.
3. What is latent heat?
4. Define free moisture content.
6. What are standard sieves?
7. What is convection?
8. Write about calendria.
9. Define moderately course powder.
10. What is lyophilisation?
