

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

(LN 4256)

AUGUST 2018

Sub. Code: 4256

**B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER I – PHYSICAL PHARMACEUTICS**

Q.P. Code: 564256

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define micromeritics. Explain the various methods to determine particle size analysis.
2. a) Explain objectives, procedures and limitations of accelerated stability testing.
b) Explain briefly difference between flocculation and deflocculation suspension.

II. Write notes on:

(8 x 5 = 40)

1. Spreading coefficient.
2. Diffusion principles in biological systems.
3. Theory of emulsification.
4. Inclusion Complex.
5. Electrical properties of interface.
6. Purification of colloids.
7. Methods to adjust isotonicity.
8. Non-Newtonian system.

III. Short answers on:

(10 x 2 = 20)

1. Angle of repose.
2. BET equation.
3. Plug flow.
4. Surface tension.
5. Partition coefficient.
6. Schulze Hardy rule.
7. Multiple emulsion.
8. Micellar solubilization.
9. Chelates.
10. Yield value.
