

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

[BPHARM 0522]

**MAY 2022
(FEBRUARY 2022 EXAM SESSION)**

Sub. Code: 4267

**B. PHARMACY DEGREE EXAMINATION
FOURTH (FINAL) YEAR – (NON-SEMESTER)
PAPER I – FORMULATIVE PHARMACY AND BIO-PHARMACEUTICS
*Q.P. Code: 564267***

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss about the methods of formulation in Microencapsulation.
2. Discuss the formulation of Osmotic drug delivery system and its evaluation.

II. Write notes on:

(8 x 5 = 40)

1. Sugar coating process.
2. Problems in tablet compression and correction.
3. Used in Tablet formulation.
4. Noyes-Whitney equation and its significance.
5. Ion – Exchange resin method.
6. Volume of Distribution and elimination half life.
7. Mechanism of drug absorption.
8. Designing of Bioequivalence.

III. Short answers on:

(10 x 2 = 20)

1. Polymorphism.
2. Compartmental models.
3. Soft gelatin capsule.
4. Microencapsulation methods.
5. Types of Coating.
6. Film coating polymers.
7. Slugging Process.
8. Film defects.
9. Benefits of Prolonged release dosage forms.
10. Renal clearance.
