

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

[BPHARM 0522]

**MAY 2022
(SEPTEMBER 2021 EXAM SESSION)**

Sub. Code: 2075

**B. PHARMACY DEGREE EXAMINATION
PCI Regulation SEMESTER - VII
PAPER IV - NOVEL DRUG DELIVERY SYSTEM
Q.P. Code : 562075**

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Discuss about the approaches to design controlled release formulation.
2. Write about the liposomes targeted drug delivery system.
3. Write about the methods of microencapsulation.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Applications of nasal drug delivery system.
2. Metered dose inhalers.
3. Niosomes.
4. Applications of monoclonal antibodies.
5. Intrauterine device.
6. Barriers to ocular drug delivery system.
7. Evaluation of nanoparticles.
8. Factors affecting permeation of Transdermal drug delivery system.
9. Dissolution controlled release system.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Advantages of controlled drug delivery.
2. Natural Polymers.
3. Advantages of micro encapsulation.
4. Air suspension techniques.
5. Drugs suitable for Gastro-retentive drug delivery system.
6. Floating drug delivery system.
7. Advantages of transdermal drug delivery systems.
8. Applications of niosomes.
9. Ocuserts.
10. Application of nanoparticle.
