

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(Deemed to be University) , SALEM**

**B.PHARM. DEGREE EXAMINATION – October 2021  
Seventh Semester**

**NOVEL DRUG DELIVERY SYSTEM**

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. Explain the controlled drug delivery systems.
2. Write in detail about the different preparation methods of microencapsulation.
3. Write a detailed note on the basic components of transdermal drug delivery systems.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Define polymers and add a note on their role in controlled release drug delivery systems.
5. Illustrate the principle of bioadhesion.
6. Enlist the different strategies to delay drug transit through GIT.
7. What are the different approaches for investigating the drug target using antibodies?
8. Explain the structure and salient features of niosomes.
9. What are dendrimers and their applications?
10. Describe the various mechanisms of ocular drug absorption.
11. Write a brief note on vaginal rings.
12. Classify and contrast the different ophthalmic inserts.

III. Write short notes on : (10 x 2 = 20)

13. Define the terms
  - i) Controlled release dosage form
  - ii) Sustained release dosage form
14. Write a note on elastomers with examples.
15. Define mucoadhesive drug delivery systems.
16. What are the ideal properties of an Implant?
17. Write a note on effervescent systems.
18. Enumerate the types of monoclonal antibodies.
19. Write a note on endophthalmitis.
20. Define the term antigen.
21. Write the advantages of pulmonary drug delivery systems.
22. Enlist the basic components of transdermal drug delivery systems.