Sl.No: M2144 Course Code: BP704T

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

B.PHARM. DEGREE EXAMINATION – July 2021 Seventh Year

NOVEL DRUG DELIVERY SYSTEM

Time: Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions:

 $(2 \times 10 = 20)$

- 1. Elaborate the role of physiochemical and biological properties of drug in controlled release formulations.
- 2. Write a detailed note on development and application of IUD.
- 3. Illustrate the formulation and evaluation of Liposomes.
- II. Write short answers on any **SEVEN** questions:

 $(7 \times 5 = 35)$

- 4. List out the applications of Gastroretentive drug delivery.
- 5. Principle of bioadhesion.
- 6. Classify and list out the permeation enhancers with suitable examples.
- 7. Method of preparation of microencapsulation.
- 8. Classify polymers with suitable examples for each.
- 9. Enlist the advantage and disadvantage of targeted drug delivery.
- 10. Drug delivery approaches to overcome the ocular barriers.
- 11. Formulation consideration for buccal delivery.
- 12. Write a short note on metered dose inhalers.

III. Write short notes on:

 $(10 \times 2 = 20)$

- 13. Define inflatable drug delivery system with examples.
- 14. Define sustained release.
- 15. Dry powder inhalation.
- 16. List the method of preparation used in nanoparticle formulations.
- 17. Mucoadhesion.
- 18. Enlist the advantages of implantable drug delivery.
- 19. Types of TDDS.
- 20. List any four hydrophilic polymers.
- 21. List the evaluation parameters performed for TDS.
- 22. Nanoparticles.