

QP CODE: 211327

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
November 2024**

M.Pharm (Pharmaceutics)

Paper I: Molecular Pharmaceutics (MPH 201T)

(Nano Technology and Targeted Drug Delivery Systems)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours

Total Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Describe any two methods of preparation of nanoparticles and their evaluation.
2. Explain the principle, preparation and applications of monoclonal antibodies.
3. Describe in detail about the biological process involved in drug targeting.

Short Notes

(9x5=45)

4. Explain the different techniques and applications of microencapsulation.
5. Aquasomes.
6. Liposome and brain targeting.
7. Application of nasal drug delivery system.
8. Gene Expression systems.
9. Applications of gene therapy.
10. Write Note on Pulmonary drug delivery systems.
11. Preparation and application of Phytosomes.
12. Explain the method of preparation of Niosomes.
