

QP CODE: 211327

Reg. No:.....

**Second Semester M. Pharm Degree Supplementary Examinations
February 2026**

M.Pharm (Pharmaceutics)

Paper I: Molecular Pharmaceutics (MPH 201T)

(Nano Technology and Targeted Drug Delivery Systems)

(Common for 2019 and 2024 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. Discuss the various drug delivery strategies to the brain with relevant examples.
2. What are monoclonal antibodies. Write the method of preparation and list out their applications.
3. Explain the methods of preparation of nanoparticles and their evaluation.

Short Notes

(9x5=45)

4. Explain the preparation of Phytosomes.
5. Explain the biological process involved in drug targeting to tumour.
6. Write briefly on the evaluation of microspheres.
7. What are the potential target diseases for gene therapy. Explain.
8. Write the preparation and applications of electrosomes.
9. Define aerosols and explain in detail the propellants used in aerosols.
10. Applications of aquasomes.
11. How are liposomes characterized.
12. What are Aptamers. Explain their therapeutic significance.
