

QP CODE: 211327

Reg. No:.....

**Second Semester M. Pharm Degree Supplementary Examinations
September 2022**

M.Pharm (Pharmaceutics)

Paper I: Molecular Pharmaceutics (MPH 201T)

(Nano Technology and Targeted Drug Delivery Systems)

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 about classification, preparation and evaluation methods of nano particles
2. Explain the preparation and evaluation of liposomes
3. Narrate about the bioavailability and pharmacokinetic analysis of controlled delivery system

Short Notes

(9x5=45)

4. Brain drug delivery strategies
5. Liposomes as carrier of immunomodulators
6. Advantages and disadvantages of viral and non-viral gene transfer system
7. Characterization of nanoparticles
8. Preparation and applications of niosomes
9. Aquasomes
10. Classification of propellants
11. Containers used in aerosol preparation
12. Preparation and evaluation of intranasal route delivery systems
