QP CODE: 211327	Reg. No:
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Second Semester M. Pharm Degree Regular/Supplementary Examinations May 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. Explain the principle and fundamentals involved in drug targeting to the brain.
- 2. Describe the therapeutic antisense molecules and aptamers as drugs of future
- 3. Describe structure, classification and preparation methods of niosomes

Short Notes (9x5=45)

- 4. Describe in detail about the biological process involved in drug targeting
- 5. What are monoclonal antibodies. Explain the principle and mechanism of their production
- 6. Explain in detail the techniques used for the preparation of liposomes
- 7. Discuss about the role of propellants in inhalation aerosols
- 8. Ex-Vivo and in-vivo gene therapy
- 9. Describe the preparation and evaluation of nasal drug delivery systems
- 10. Preparation and applications of aquasomes
- 11. Describe the gene expression techniques
- 12. Explain on evaluation of microspheres.
