QP CODE: 211327 Reg. No:......

Second Semester M. Pharm Degree Supplementary Examinations December 2023

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. Define targeting. Explain the mechanism of tumour targeting.
- 2. Describe the advancements of gene therapy for the treatment of inherited disorders and cancer.
- 3. Describe any two methods of preparation of microspheres and their evaluation.

Short Notes (9x5=45)

- 4. Explain the principle and techniques of formulating nanoparticles.
- 5. Preparation and application of phytosomes.
- 6. Explain on therapeutic antisense molecules.
- 7. Explain on brain specific drug delivery.
- 8. Explain preparation and application of monoclonal antibodies.
- 9. Explain the method of preparation of Niosomes.
- 10. Explain on pulmonary drug delivery systems with its merits and demerits.
- 11. Describe the nasal absorption pathways and various approaches for its enhancement.
- 12. Explain various methods of preparation of liposomes with their applications.
