### Second Semester M. Pharm Degree Regular/Supplementary Examinations February 2021 M.Pharm (Pharmaceutics)

Paper I: Molecular Pharmaceutics (MPH 201T)

(Nano Technology and Targeted Drug Delivery Systems)

### Time: 3 Hours

- 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

- 1. Define microcapsules. Explain the types and advantages. Enumerate the methods of preparation of microcapsules. Explain coacervation.
- 2. Explain about concept, events and biological process involved in drug targeting.
- 3. Define liposomes. Explain about the types, preparation and evaluation of liposomes

#### Short Notes

- 4. Explain about brain specific delivery system.
- 5. Describe the tumour targeting methods.
- 6. Intra nasal delivery systems.
- 7. Evaluation and applications of nano particles.
- 8. Gene expression systems.
- 9. Monoclonal antibodies and its preparation.
- 10. Preparation and application of aquasomes.
- 11. Aptamers.
- 12. Propellants used in aerosols

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## QP CODE: 211327

(3x10=30)

#### (9x5=45)

# Total Marks: 75

Reg. No:....