QP CODE: 112327	Reg. No:

First Semester M.Pharm Degree Regular/Supplementary Examinations April 2023 M.Pharm (Pharmaceutics)

Paper II – Drug Delivery System (MPH 101T)

(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. Describe the physicochemical and biological approaches for sustained release formulation.
- 2. Describe the barriers of drug permeation for ocular drug delivery systems.
- Explain the formulation and evaluation of transdermal drug delivery systems.

Short Notes (9x5=45)

- 4. Single shot vaccines.
- 5. Evaluation of delivery systems of proteins.
- 6. The concept of gastro-retentive drug delivery systems.
- 7. Osmotic activated drug delivery systems.
- 8. 3D printing of pharmaceutical and its importance.
- 9. The various types of polymers for controlled release formulations.
- 10. The applications of rate controlled drug delivery systems.
- 11. The factors influencing buccal drug delivery systems.
- 12. Principle of penetration enhancers.
