

**QP CODE: 112327**

**Reg. No:.....**

**First Semester M.Pharm Degree Regular/Supplementary Examinations  
April 2025  
M.Pharm (Pharmaceutics)**

**Paper II – Drug Delivery Systems (MPH 102T)  
(Common for 2019 and 2024 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. Enumerate the mechanism of drug delivery involved in sustained release and controlled release formulation.
2. Describe the principle and concept behind gastro retentive drug delivery.
3. What are the parameters to be evaluated for transdermal patches

**Short Notes**

**(9x5=45)**

4. Customized drug delivery systems.
5. Classify polymers for sustained release with examples.
6. Explain about single shot vaccines.
7. Bio erosion regulated drug delivery system.
8. Merits and Demerits of buccal drug delivery system.
9. Wettability and adsorption theory of mucoadhesion.
10. Controlled release ocular systems.
11. Physico chemical factors influencing transdermal penetration of drugs.
12. Explain telepharmacy.

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