

**First Semester M.Pharm Degree Regular/Supplementary Examinations**  
**June 2024**  
**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. Explain in detail the osmotically active drug delivery systems with examples
2. Mention the methods followed to overcome the barriers in ocular drug delivery
3. Discuss the requirements and formulation techniques for matrix type transdermal drug delivery system

**Short Notes**

**(9x5=45)**

4. Biological approaches in sustained release formulation
5. Telepharmacy
6. Enzyme activated drug delivery system
7. Advantages and disadvantages of gastro-retentive drug delivery
8. Two evaluation methods for buccal films
9. Describe floating drug delivery system
10. Formulation techniques followed for macro molecules
11. Describe the properties and pharmaceutical application of any two synthetic polymer
12. Personalized medicine

\*\*\*\*\*