

QP CODE: 112327

Reg. No:.....

**First Semester M.Pharm Degree Supplementary Examinations  
January 2021  
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 concept of personalized medicine
2. Write the osmotic activated drug delivery systems.
3. Explain the formulation and evaluation of gastro-retentive drug delivery systems.

**Short Notes**

**(9x5=45)**

4. Explain mucosal delivery of vaccines.
5. Explain barriers for ocular delivery.
6. Explain penetration enhancers
7. Explain bioelectronic medicine
8. Explain the evaluations for protein delivery systems
9. Explain the biological factors affecting the sustained released formulations
10. Applications of buccal drug delivery systems.
11. Explain the structure of skin
12. Explain the approach for feedback regulated drug delivery systems

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