

QP CODE: 112327

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations  
November 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. Explain in detail about osmotic pump.
2. Describe about the concepts and various approaches for the development of sustained/controlled release formulations.
3. Explain in detail about feedback regulated drug delivery system

**Short Notes**

**(9x5=45)**

4. Discuss on single shot vaccines.
5. Explain the approaches for the development of transdermal patches.
6. Explain the formulation of protein drug delivery.
7. Describe about 3D printing of pharmaceuticals.
8. Explain the methods to overcome the barriers of corneal absorption.
9. Floating drug delivery system.
10. The importance and applications of pharmacogenetics
11. Explain the transdermal delivery of vaccines.
12. Explain about biodegradable polymers.

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