

QP CODE: 113327

Reg. No:.....

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

**Paper III – Modern Pharmaceutics (MPH103T)
(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. What are small and large volume parenterals. Explain different evaluation tests for parenterals in brief.
2. Explain the objectives and policies of cGMP.
3. Discuss diffusion, dissolution and pharmacokinetic parameters.

Short Notes

(9x5=45)

4. Explain the stability testing protocol according to ICH guidelines.
5. Briefly explain various methods to study the drug excipient interactions.
6. Theory and composition of SMEDDS.
7. What are different factorial designs. Mention their applications in formulation.
8. Explain DQ, IQ, OQ and PQ of facilities.
9. What are different types of validation. Mention the merits of validation.
10. Handling and transportation.
11. Explain the physics of tablet compression.
12. Total quality management.
