

QP CODE: 113327

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations  
November 2021  
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. Describe the optimization techniques in pharmaceutical formulation.
2. Explain the objectives and policies of current good manufacturing practices.
3. Explain the dissolution and pharmacokinetic parameters in formulation development

**Short Notes**

**(9x5=45)**

4. The kinetics of stability.
5. The formulation consideration for parenteral dosage forms.
6. Explain the types of validation.
7. Materials management.
8. The compaction profiles in tablet formulation.
9. The stability issues of suspensions.
10. Heckel plots in tablet production process
11. The importance of pre formulation studies.
12. Principle about students T-test in pharmaceutical experiments.

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