

**QP CODE: 113327**

**Reg. No:.....**

**First Semester M.Pharm Degree Supplementary Examinations  
February 2022  
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 manufacturing process and evaluations for large volume parenterals
2. Explain the different optimization techniques in pharmaceutical formulation and processing
3. Explain the compression and compaction in tablet manufacturing process

**Short Notes**

**(9x5=45)**

4. Explain the similarity factors
5. Explain sales forecasting
6. Objectives of cGMP
7. Types of validations
8. Explain the response surface method
9. Stability issues of emulsions
10. Explain SMEDDS
11. Define preformulation and its importance.
12. Explain diffusion parameters.

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