

QP CODE: 113327

Reg. No:.....

**First Semester M.Pharm Degree Supplementary Examinations
August 2024**

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. Explain the factors affecting compression of tablets. Add a note on the effect of friction in compression.
2. Define optimization. List out the types of experimental design. Explain any one optimization technique in detail.
3. Mention the objectives of production and planning control. Explain the elements of production control.

Short Notes

(9x5=45)

4. Explain the different techniques of inventory management and control with reference to pharmaceutical industry.
5. Explain evaluation of small volume parenterals.
6. What are dispersions. Classify and explain any two methods of preparation.
7. Explain various solubility enhancement techniques.
8. Explain the concept of total quality management with reference to manufacturing of pharmaceuticals.
9. Discuss about linearity concept of significance and standard deviation.
10. Discuss in detail about the qualification parameters for validation of equipments.
11. Explain the different methods for assessing drug excipient interactions.
12. Explain the principle of budget and cost control in pharmaceutical industry.
