First Semester M.Pharm Degree Supplementary Examinations July 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 the optimization techniques in pharmaceutical formulation and processing.

2. Discuss in detail about the manufacturing process model and government regulations and in validation.

3. Discuss the objectives and policies of cGMP. Write the GMP requirements and layout of buildings, services, equipments and their maintenance for solid dosage form products.

Short Notes   **(9x5=45)**

4. Discuss briefly about response surface method.

5. Explain in detail about

    a) Effect of friction

    b) Solubility

6. Detail about the Heckels plots and Peppas plots.

7. Discuss about industrial and personal relationship.

8. What is statistical design and explain various types of design.

9. Define preformulation and explain drug excipients interactions.

10. Explain the physics of consolidation and distribution of forces.

11. Discuss the preformulation requirements for developing pharmaceutical dispersions.

12. Explain the following

    a) Linearity concept of significance

    b) Chi square test

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