

QP CODE: 213327

Reg. No:.....

**Second Semester M. Pharm Degree Supplementary Examinations
February 2026
M.Pharm (Pharmaceutics)**

**Paper III: Computer Aided Drug Development (MPH 203T)
(Common for 2019 and 2024 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. Elaborate on Computer aided biopharmaceutical characterization in gastro intestinal absorption simulation.
2. Explain the role of computers in clinical data collection and management.
3. Discuss the various statistical modeling in pharmaceutical Research and Development.

Short Notes

(9x5=45)

4. Write a note on regulation of computer system in pharmaceutical industry.
5. Give a brief note on ICH Q8 guideline.
6. Write briefly on the role of nucleoside transporters.
7. Common issues of computer ethics in Research and Development.
8. Importance of Biowaiver considerations.
9. Current challenges and future directions of Artificial Intelligence.
10. Types of factorial design.
11. Computer simulation in whole organism.
12. Computational modeling techniques for drug excretion.
