Second Semester M. Pharm Degree Regular/Supplementary Examinations October 2023 M.Pharm (Pharmaceutics)

Paper III: Computer Aided Drug Development (MPH 203T)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours

- 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

- 1. Explain procedure involved, before and during data collection process for clinical data collection and management.
- 2. Explain about the bottom-line examples of computers in market analysis
- 3. Describe about screening designs in pharmaceutical experimental design.

Short Notes

- 4. Explain on regulatory aspects of QbD in pharmaceutical product development
- 5. Explain about biowaiver considerations.
- 6. Explain on solubility and intestinal permeation in computational modeling of drug disposition.
- 7. Describe any one technology involved in robotics
- 8. Explain the pharmaceutical development and risk assessment in ICH Q8.
- 9. Explain in details of computer simulation for isolated tissues and organs
- 10. State the theoretical background and one application with example of computational fluid dynamics in pharmaceuticals.
- 11. Discuss the computational modeling of P-gp, BCRP, Nucleoside Transporters and hPEPT1.
- 12. Enlist the ethics of computing in pharmaceutical research.

QP CODE: 213327

(3x10=30)

(9x5=45)

Total Marks: 75

Reg. No:.....