M.Pharm (Pharmaceutics)

September 2022

Paper II: Advanced Bio-Pharmaceutics and Pharmacokinetics (MPH 202T)

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 the formulation and physicochemical factors in the gastrointestinal absorption of drugs.
- 2. Discuss the biopharmaceutics factor effecting drug bioavailability and rate limiting steps in drug absorption.
- 3. Describe in detail about one compartment model pharmacokinetics (IV bolus and IV infusion)

Short Notes

- 4. Michaelis Menten equation
- 5. Mechanism of drug absorption
- 6. Two compartmental models in pharmacokinetics
- 7. Drug interaction linked to transporters.
- 8. Design of bioequivalence studies.
- 9. Noyes -Whitney equation.
- 10. Biopharmaceutics classification systems
- 11. In vitro in vivo correlation studies.
- 12. Pharmacokinetics and pharmacodynamics of biotechnology drugs.

Reg. No:....

(3x10=30)

(9x5=45)

Total Marks: 75

QP CODE: 212327