QP CODE: 212327	Reg. No:
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Second Semester M. Pharm Degree Regular/Supplementary Examinations October 2023

M.Pharm (Pharmaceutics)

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

(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. Discuss the pharmacokinetics of one compartment model when drug is given Intravenously.
- 2. Explain the determination of pharmacokinetic parameters using urinary excretion data.
- 3. Describe two compartment model pharmacokinetics for oral absorption of drugs with suitable examples, graphs and pharmacokinetic equations.

Short Notes (9x5=45)

- 4. Explain the cross over designs of bioequivalence studies.
- 5. Explain the causes of nonlinear pharmacokinetics. Explain with examples.
- With suitable graphs explain how Kmax and Vmax can be estimated.
- 7. Discuss on any three factors affecting dissolution rate.
- 8. Explain compendial methods of dissolution study. Explain.
- 9. Explain the biosimilar drug products.
- 10. Discuss on biopharmaceutics classification system. Give examples. What is its importance.
- 11. Explain the drug interactions with suitable examples.
- 12. With suitable examples explain the clinical significance of bioequivalence.
