QP CODE: 212327	Reg. No:
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Second Semester M. Pharm Degree Supplementary Examinations December 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. List and explain the various factors affecting drug absorption. Give examples.
- 2. How bioavailability and bioequivalence are assessed. Discuss.
- 3. Discuss the pharmacokinetics of one compartment model when drug is given orally.

Short Notes (9x5=45)

- 4. Explain the application of pharmacokinetics and pharmacodynamics of biotechnology drugs.
- 5. Explain the non-linear pharmacokinetics. Explain with suitable graphs and examples.
- 6. List and explain the clinical significance of bioequivalence studies.
- 7. Discuss on Invitro Invivo Correlation and its importance.
- 8. Discuss the limitations of pH partition hypothesis.
- 9. Discuss on cytochrome P450 based drug interactions. Give examples.
- 10. With a neat, labelled diagram, explain the construction and working of rotating basket apparatus for dissolution testing of drug products.
- 11. Explain the biopharmaceutical classification system.
- 12. Explain on monoclonal antibodies for targeted drug delivery systems.
