QP CODE: 212327	Reg. No:
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Second Semester M. Pharm Degree Regular/Supplementary Examinations November 2024

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. Explain non-linear pharmacokinetics. Derive an expression for Michaelis Menten equation
- 2. Describe in detail about the methods of measurement of bioavailability
- 3. Explain the importance of in-vitro dissolution testing and types of dissolution testing

Short Notes (9x5=45)

- 4. Discuss in detail about Bio pharmaceutics classification system
- 5. Explain pharmacokinetic and pharmacodynamic characteristics essential for a biotechnological drug
- 6. Explain about bioequivalence experimental study design protocol.
- 7. Explain the principle involved in modified release and targeted drug delivery system
- 8. Explain about the structure and physiology of gastrointestinal cell membrane
- 9. Discuss the pharmaceutical factors affecting drug absorption
- 10. Describe the cross over design to perform bioequivalence studies
- 11. Explain the compendial methods for determining dissolution
- 12. Discuss briefly about Oligonucleotides
