

**QP CODE: 212327**

**Reg. No:.....**

**Second Semester M. Pharm Degree Regular/Supplementary Examinations  
February 2021**

**M.Pharm (Pharmaceutics)**

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

**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. Describe the In vitro drug dissolution testing models with their merits and demerits.
2. Explain the causes of non-linearity in pharmacokinetics of drugs. Add a note on estimation of V max and km
3. Explain various pharmaceutical factors affecting the drug absorption

**Short Notes**

**(9x5=45)**

4. Explain in brief extra vascular compartmental modelling
5. Explain the active transport of drug absorption
6. Tissue binding of drugs
7. Explain the various methods for the determination of permeability
8. Explain the protocol for bioequivalence studies
9. Explain the methods of measurement of bioavailability
10. Explain the influence of gastric emptying and intestinal transit time on absorption of drugs
11. Discuss pharmacokinetics and pharmacodynamics of biotechnology drugs
12. Explain on cytochrome p450 based drug interactions

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