

QP CODE: 212327

Reg. No:.....

**Second Semester M.Pharm Degree Examinations August 2018**

**M.Pharm (Pharmaceutics)**

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

**(2017 Scheme)**

**Time: 3 Hours**

**Total Marks: 75**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Explain the physicochemical factor affecting drug absorption in the gastrointestinal tract.
2. Discuss the purpose and method for assessing bioavailability.
3. Describe in detail about multi compartment model pharmacokinetics

**Short Notes**

**(9x5=45)**

4. Alternative method of dissolution testing.
5. Crossover study design
6. Nonlinear models in pharmacokinetics
7. Drug product stability.
8. Clinical significance of bioequivalence studies.
9. Protein binding based drug interactions
10. Gene therapy
11. Relative and absolute bioavailability.
12. Cytochrome P450- based drug interactions

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