

QP CODE: 212327

Reg. No:.....

**Second Semester M. Pharm Degree Supplementary Examinations
January 2020**

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. Define absorption. Explain the mechanisms of drug absorption
2. Explain *in vivo*, *in-situ* and *in vitro* methods for the determination of permeability
3. Discuss about the theories of drug dissolution

Short Notes

(9x5=45)

4. Design and evaluation of bioequivalence studies
5. Alternative methods of dissolution testing
6. Properties of GIT
7. pH - partition theory of drug absorption
8. Transcellular and para cellular transport
9. Non compartmental model in pharmacokinetics
10. Phases of drug transfer from GI absorption site into systemic circulation
11. Generic substitution
12. Tissue – binding of drugs.
