

QP CODE: 212327

Reg. No:.....

Second Semester M.Pharm Degree Supplementary Examinations
January 2019

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. Describe the factors influencing drug absorption and bioavailability
2. Explain the pharmacokinetics and pharmacodynamics of biotechnology drugs
3. Explain the non-linear pharmacokinetics and estimation of K_{max} and V_{max}

Short Notes

(9x5=45)

4. Bioequivalence study design and protocol
5. *In vitro* - *In vivo* correlation
6. Limitations of pH - partition hypothesis
7. Problems of variable control in dissolution testing
8. Two compartment model in pharmacokinetics
9. Biopharmaceutics classification systems of drugs
10. Schematic representation of the GIT into different sites of drug absorption
11. Cytochrome p450 based drug interactions
12. Drug product stability considerations in product designing.
