

M.Pharm. First Year (Pharmaceutics) CBCS Pattern Semester-II
MPH202T - Advanced Biopharmaceutics and Pharmacokinetics

P. Pages : 1

Time : Three Hours



GUG/W/23/14179

Max. Marks : 75

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- Notes :
1. All questions carry equal marks.
 2. Illustrate your answers wherever necessary with the help of neat sketches.
 3. All question are compulsory.

- 1. Solve any ten. 20**
- i) What is tight junction complex.
 - ii) Define pharmacodynamic.
 - iii) What do you mean by permeability.
 - iv) Define elixir.
 - v) What do you mean by drug absorption.
 - vi) What is one compartment model.
 - vii) Give application of pharmacokinetic.
 - viii) What do you mean by drug interaction.
 - ix) Define vaccines.
 - x) What do you mean by K_{max} .
 - xi) Define V_{max} .
 - xii) Give note on drug release.
- 2. Solve any two. 20**
- i) Explain in details about two compartment model of IV bolus? And derive suitable equation to assess pharmacokinetic parameter?
 - ii) Explain in detail Biopharmaceutical consideration in drug product design?
 - iii) Explain various dissolution methods?
- 3. Solve any five. 35**
- i) Explain various types of pharmacokinetic model.
 - ii) pH partition hypothesis and its limitation.
 - iii) Write note on Biosimilar drug (genetic biologics) products and their applications.
 - iv) Explain pharmacokinetics model and their significance.
 - v) Method for assessing the bio-availability of a drug.
 - vi) Explain mechanism of absorption.
 - vii) Explain Michaelis Menten equation.
