

M.Pharm. F.Y. (Pharmaceutics) CBCS Pattern Semester-II  
**MPH202T - Advanced Biopharmaceutics and Pharmacokinetics**

P. Pages : 1

Time : Three Hours



**GUG/W/24/14179**

Max. Marks : 75

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- Notes : 1. Diagrams and chemical equation should be given wherever necessary.  
2. All questions are compulsory.

- 1. Solve any ten out of following. 10x2  
=20**
- i) Define Bioavailability.
  - ii) Note on monoclonal antibodies.
  - iii) K<sub>max</sub> and V<sub>max</sub>.
  - iv) Give account on pharmacodynamic.
  - v) Noyes-Whitney equation.
  - vi) Drug interaction means what.
  - vii) What is volume of distribution.
  - viii) Define Relative Bioavailability.
  - ix) Olegoneucotide.
  - x) Vaccines means what.
  - xi) Give applications of pharmacokinetic.
  - xii) Define Absolute Bioavailability.
- 2. Solve any two. 2x10  
=20**
- i) Describe methods to assess Bio-availability.
  - ii) Discuss physio-chemical factor influencing drug absorption.
  - iii) Explain two compartment open model of IV Bolus?
- 3. Solve any five from following. 5x7  
=35**
- i) Bioavailability classification system.
  - ii) Role of transport in drug absorption.
  - iii) Discuss physio-logical pharmacokinetic mode.
  - iv) In-vitro and in vivo correlation.
  - v) Pharmacokinetic model and their significance.
  - vi) Explain drug food interaction.
  - vii) pH partition Hypothesis.

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