

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

P. Pages : 1

Time : Three Hours



**GUG/S/25/14179**

Max. Marks : 75

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- Notes :
1. Assume suitable data wherever necessary.
  2. Illustrate your answers wherever necessary with the help of neat sketches.
  3. All questions are compulsory.

1. Elaborate **any ten** out of 10. **2x10**  
**=20**
  - i) Define Absorption.
  - ii) Dosage form
  - iii) Bioavailability
  - iv) Define Stability.
  - v) Pharmacokinetics
  - vi) Relative Bioavailability.
  - vii) Monoclonal antibodies.
  - viii) Vaccines
  - ix)  $V_{max}$
  - x) Hypothesis
2. Solve **any five** out of 7. **5x7=**  
**35**
  - i) Explain Noyes-Whitney and factor affecting dissolution rate.
  - ii) Explain various method involved in determination of bioequivalence.
  - iii) Role of transporter in drug absorption.
  - iv) Biopharmaceutical classification system.
  - v) PH-Partition Hypothesis.
  - vi) In Vitro-In Vivo correlation.
  - vii) Role of dosage form.
3. Solve **any two** from following. **2x10**  
**=20**
  - i) Explain Mechanism of drug absorption.
  - ii) Explain various physiological factor affecting the gastro-intestinal tract drug absorption.
  - iii) Detail note about methods to determine the bioavailability.

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