Reg. no.:

Biopharmaceutics & Pharmacokinetics

January 2021

Time: 3 Hours

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays:

(3x10=30)

Total Marks: 70

- 1. Discuss the physiological barriers affecting the distribution of drugs
- 2. How to assess pharmacokinetic parameters after extravascular drug administration in one compartment open model.
- 3. Explain the procedure for determining Km and Vmax in Michaelis Menten equation at steady state concentration

Short notes:

- 4. Explain the relationship between renal clearance values and mechanism of clearance
- 5. State any two pharmaceutical dosage form factors influencing gastrointestinal absorption.
- 6. Explain the applications of pharmacokinetic model.
- 7. How to determine the exponents in two compartment open model extra vascular drug administration.
- 8. Describe the importance and applications of non-compartmental analysis.
- 9. Explain the protocol for determination of bioavailability
- 10.Discuss the correlation between drug pKa and gastro intestinal pH on drug absorption.
- 11. Discuss any two bioequivalence study design.

quation

(8x5=40)