

Roll No.: _____

Enrolment No. _____

PARUL UNIVERSITY

PARUL INSTITUTE OF PHARMACY & RESEARCH

PHARM.D FOURTH YEAR · FIRST INTERNAL EXAMINATION: 2021-2022

Subject Name: Biopharmaceutics and Pharmacokinetics

Subject Code: 08207405

Time: 10:00 am - 11:30 am

Date: 30/07/2021

Total Marks: 30

Instructions:

- 1. Make suitable assumptions wherever necessary.**
- 2. Figures to the right indicate full marks.**

I Long Essay. (Answer Any One) 10 X 1 = 10M

1. Classify factors affecting Drug Absorption. Write a note on Physicochemical factors of drug absorption.
2. Write a note on Protein Binding.

II Short Essay. (Answer Any Two) 5 X 2 = 10M

1. Write a note on mechanism of drug absorption.
2. Write a note on Formulation related factors affecting drug absorption.
3. Write a note on dissolution Theories.

III Short Answers. (Answer All) 2 X 5 = 10M

1. What are hydrates and Solvates?
2. Defined: Xenobiotics and Drug disposition.
3. What is effect of polymorphism on solubility?
4. Defined Dissolution, Drug absorption, C_{max}, T_{max}.
5. Draw a schematic diagram on atypical plasma drug concentration Vs. time. Mentioned all Pharmacokinetic and Pharmacodynamics parameters.

******* BEST OF LUCK *******