## Q.P. Code: 405326

## Fourth Year Pharm D Degree Regular/Supplementary Examinations November 2021

## **Biopharmaceutics & Pharmacokinetics**

## Time: 3 Hours

- Answer all guestions 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**:

- 1. Explain one compartment open model for repetitive IV bolus administration.
- 2. Explain pharmacokinetic methods of assessment of bioavailability.
- 3. Explain patient related factors affecting drug absorption

## Short notes:

- 4. Describe the one compartment open model pharmacokinetics for oral administration
- 5. Explain Michalis-Menten equation for non-linear kinetics.
- 6. Describe the role of glomerular filtration in drug elimination.
- 7. What is gastric emptying. Explain the factors affecting gastric emptying.
- 8. Explain the concept of non-compartment model.
- 9. Explain the different factors effecting the process of drug metabolism.
- 10. Explain the volume of distribution with its significance
- 11. Explain reasons why non-linear kinetics is also known as mixed order kinetics

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# Reg. no.: .....

(3x10=30)

## (8x5=40)

Total Marks: 70