

[BPHARM 0921]

SEPTEMBER 2021
(SEPTEMBER 2020 EXAM SESSION)

Sub. Code: 2065

B. PHARMACY DEGREE EXAMINATION
PCI Regulation 2017 - SEMESTER - VI
PAPER IV – BIOPHARMACEUTICS AND PHARMACOKINETICS
Q.P. Code : 562065

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Explain physicochemical factors influencing drug absorption through Gastro Intestinal Tract (GIT).
2. Explain one compartment model following extra vascular administration.
3. Discuss different methods used in bioequivalence studies.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Explain tissue permeability of drugs in details.
2. Write about clinical significance of protein binding of drugs.
3. Write a detail about the phase II reaction of metabolism.
4. Factors affecting drug metabolism.
5. Factors affecting excretion of drug.
6. Determination of bioavailability.
7. Types of pharmacokinetic model.
8. Two compartment open model.
9. Non linear pharmacokinetics.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Endocytosis.
2. Apparent volume of drug distribution.
3. Renal clearance.
4. First pass metabolism.
5. Intravenous infusion.
6. Multi dose.
7. Metabolism.
8. One compartment open model.
9. Non renal route of drug excretion.
10. Bio pharmaceuticals.
