

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0122]

JANUARY 2022
(MARCH 2021 EXAM SESSION)

Sub. Code: 2065

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
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. Discuss the mechanism of drug absorption through Gastro Intestinal Tract (GIT).
2. Give brief summary on kinetics of multiple dosing.
3. Discuss about factors affecting drug metabolism.

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

1. Explain apparent volume of drug distribution.
2. Write about kinetic of protein binding.
3. Method enhances the dissolution rate.
4. Plasma and tissue protein binding drug.
5. Non compartment model.
6. *Invitro* and *Invivo* correlation.
7. Factors causing non linearity.
8. Steady state drug level.
9. One compartment open model for intravenous infusion.

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

1. Mention the pharmaceutical formulation factors.
2. Factors affecting protein drug binding.
3. Testing of kidney function.
4. Bioequivalence.
5. Bioavailability.
6. Application of pharmacokinetics.
7. Difference between linear and non linear.
8. Elimination.
9. Two compartment model.
10. Total body clearance.
