

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

[BPHARM 0321]

MARCH 2021

Sub. Code: 2065

(SEPTEMBER 2020 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation 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. Write about the pharmaceutical factors influencing drug absorption.
2. Discuss the method of measuring of bioavailability.
3. Give brief summary on Michaelis - Menton equation.

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

1. Write the factors affecting protein drug binding.
2. Explain the clearance.
3. Explain the one compartment model following intravenous injection.
4. Pharmacokinetic model.
5. Explain steady state drug level.
6. Explain two compartment model.
7. Explain factors causing non linearity.
8. Method to enhance the bioavailability of poorly soluble drugs.
9. Bio equivalence studies.

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

1. Active diffusion.
2. Process of Biliary excretion of drug
3. Biotransformation
4. Dissolution.
5. Pharmacokinetics.
6. Loading dose.
7. Absorption.
8. Absolute bioavailability.
9. Clearance.
10. Clinical significance of protein binding.
