

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

[M.PHARM 0524]

**MAY 2024
(APRIL 2024 EXAM SESSION)**

Sub. Code: 2936

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - II (PCI New Regulations 2016)
PHARMACEUTICS - MPH
PAPER II – ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS**

Q.P. Code: 262936

Time: Three hours

Answer ALL Questions

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss the physico-chemical factors influencing drug absorption.
2. Define non-linear pharmacokinetics. What are the causes for non-linearity? Explain Michalis Menten equation with respect to the estimation of K_m and V_{max} .

II. Write notes on:

(7 x 5 = 35)

1. Explain the clinical significance of bioequivalence studies.
2. Compendial methods of drug dissolution.
3. Application of pharmacokinetics in targeted drug delivery systems.
4. Biopharmaceutics classification system.
5. Cytochrome p450 drug interaction in transportation.
6. Explain rate limiting steps in drug absorption.
7. Application of cross-over design.
