

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

[MPHARM 0122]

**JANUARY 2022
(APRIL 2021 EXAM SESSION)**

Sub. Code: 2936

**M.PHARMACY DEGREE EXAMINATION
SEMESTER-II (PCI New regulations 2016)
PHARMACEUTICS - MPH
PAPER II – ADVANCED BIOPHARMACEUTICS AND PHARMACOKINETICS
*Q.P. Code : 262936***

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Write a note on various dissolution methods.
b) Non linear Pharmacokinetics including factors causing on non linearity.
2. Write the protocol for conducting bioequivalence studies. What are the techniques adopted for bioavailability enhancement of poorly water soluble drugs?

II. Write notes on:

(7 x 5 = 35)

1. Mechanism of absorption.
2. Maintenance dose.
3. Biopharmaceutics classification system.
4. Explain Michaelis Menten equation.
5. Application of pharmacokinetics in targeted drug delivery systems.
6. Loading dose, maintenance dose and accumulation index.
7. What are the objectives and approaches in developing in vitro-in vivo correlation?
