

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

[M.PHARM 0922]

**SEPTEMBER 2022
(APRIL 2022 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. Explain briefly bioequivalence studies with various designs.
2. Derive pharmacokinetic parameters for one compartment model by IV bolus administration.

II. Write notes on:

(7 x 5 = 35)

1. Applications of gene therapy.
2. Discuss briefly about Michaelis-Menton kinetics.
3. Compendial dissolution methods.
4. Write about clinical significance of bioavailability studies.
5. Applications of Oligonucleotides.
6. Explain briefly about physiological model.
7. pH partition hypothesis.
