

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

[MPHARM 0122]

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

Sub. Code: 2956

**M.PHARMACY DEGREE EXAMINATION
SEMESTER-II (PCI New regulations 2016)
PHARMACEUTICAL ANALYSIS - MPA
PAPER II – MODERN BIO ANALYTICAL TECHNIQUES
*Q.P. Code : 262956***

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the principle, procedure involved in extraction of drugs and metabolites from biological matrices by liquid – liquid extraction.
2. Write elaborately about permeability *In-vitro*, *in-situ* & *in-vivo* Methods.

II. Write notes on:

(7 x 5 = 35)

1. Describe the Pharmacokinetic drug interaction.
2. Explain about Microsomal assays.
3. Illustrate the sample preparation to study metabolites by using Human Liver Microsomes.
4. Explain alternative methods of dissolution testing transport model.
5. Write the general principle and procedure involved in cell viability assay.
6. Clinical significance of bioequivalence studies.
7. Explain the effect of Protein binding interactions.
