

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

[M.PHARM 0823]

**AUGUST 2023
(APRIL 2023 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. a) Discuss about the bioequivalence studies.
b) Principles and application of flow cytometry.
2. Write the principle involved in the extraction of drugs and metabolite from biological matrices by protein precipitation of solid and liquid phase extraction.

II. Write notes on:

(7 x 5 = 35)

1. Write about dissolution and drug releasing testing.
2. Write the purpose of Bio availability studies.
3. Write about relative and absolute bioavailability.
4. What are the regulatory aspects followed for metabolite identification?
5. Human Liver Microsomes (HLM).
6. PK-PD drug interactions.
7. LC-MS in bioactivity screening and proteomics.
