

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

[MPHARM 0921]

SEPTEMBER 2021
(OCTOBER 2020 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 EMEA guidelines for bio analytical method validation.
2. Protocol and sample preparation in Metabolite identification and regulatory perspectives.

II. Write notes on:

(7 x 5 = 35)

1. Describe the *In-vivo* approaches for metabolite identification.
2. Explain the characterization of cells and their application.
3. Illustrate the importance and application of toxicokinetic studies
4. Explain *In-situ* and *In-vivo* permeability testing method.
5. Write the general principle and procedure involved in bioanalytical method.
6. Briefly explain cell subculture method
7. Illustrate the LCMS in bioactivity screening.
