

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

[LO 956]

MAY 2019

Sub. Code: 2956

M.PHARM. DEGREE EXAMINATION
(PCI New regulations 2016)
SEMESTER-II
BRANCH-III – PHARMACEUTICAL ANALYSIS – MPA
PAPER II – MODERN BIO ANALYTICAL TECHNIQUES

Q.P. Code : 262956

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write the principle and procedure involved in the extraction of drugs and metabolite from biological matrices by Protein Precipitation and Liquid-Liquid Extraction.
2. Enlist different types of Cell Culture media, various types of Cell Culture and general procedure for making a Cell Cultures.

II. Write notes on:

(7 x 5 = 35)

1. Write the factors affecting Bioavailability of drug.
2. Write the applications of Toxicokinetic studies.
3. Enumerate the sample preparation to study Metabolites by using Rat Liver Microsome.
4. Explain about the clinical significance of Bioequivalence studies.
5. Explain about cytochrome P450 based drug interactions.
6. Explain an experimental method in detail for the determination of Permeability of drugs.
7. Discuss about the effect of Protein & Tissue-Binding Drug Interactions.
