

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

[MPHARM 0921]

**SEPTEMBER 2021
(OCTOBER 2020 EXAM SESSION)**

Sub. Code: 2954

**M.PHARMACY DEGREE EXAMINATION
SEMESTER-I (PCI New regulations 2016)
PHARMACEUTICAL ANALYSIS - MPA
PAPER IV – FOOD ANALYSIS
*Q.P. Code : 262954***

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. List any four food additives with examples. Write the procedure for the determination of listed food additives.
2. Elaborate on various analytical methods used for the estimation of protein.

II. Write notes on:

(7 x 5 = 35)

1. Summarize the bioassay method for the estimation of any one vitamin B series.
2. What are fermentation products? Describe the methods used for the analysis of any one fermentation product.
3. Discuss the procedure and principle of any two methods involved in the estimation of fat.
4. Illustrate the analytical methods for milk powder and cheese estimation.
5. Explain about the pesticide cycle.
6. Explain about the applications of modern analytical instruments in carbohydrate analysis.
7. Write note on peroxide and iodine value.
