

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

[PHARMD 1023]

OCTOBER 2023

Sub. Code: 3814

**PHARM. 'D' DEGREE EXAMINATION
THIRD YEAR (2009-2010 Regulation)
PAPER II – PHARMACEUTICAL ANALYSIS**

Q.P. Code: 383814

Time : Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Define Electrophoresis. Write the principle of separation, apparatus and types of Gel Electrophoresis.
2. Write the principle, working, apparatus used and applications of Polarography.
3. (a) Explain the sampling techniques in IR Spectrophotometry.
(b) Write the detectors used in IR Spectrophotometry. Explain about any one of them.
4. (a) Write a note on Optical Rotary Dispersion.
(b) Write about developmental techniques in TLC.

II. Write notes on:

(6 x 5 = 30)

1. Write a note on ISO 9000.
2. Write the applications of Ion exchange chromatography with suitable examples.
3. How will you determine the moisture content present in the given sample by using Karl Fischer titration?
4. Define Monochromators. Explain its types.
5. Write a note on Gel filtration chromatography.
6. Write the principle and applications of NMR spectroscopy.
