

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

[M.PHARM 0922]

**SEPTEMBER 2022
(APRIL 2022 EXAM SESSION)**

Sub. Code: 2991

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - I (PCI New regulations 2016)
PHARMACOGNOSY - MPG
PAPER I – MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES**

Q.P. Code : 262991

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the principle, instrumentation and application of IR spectroscopy.
2. Explain different types of detectors used in HPLC.

II. Write notes on:

(7 x 5 = 35)

1. Types of electronic transitions in UV spectroscopy.
2. Instrumentation of gel electrophoresis.
3. Principle and application of TGA.
4. Development techniques in paper chromatography.
5. Solvents used in NMR.
6. Ionization techniques in mass spectroscopy.
7. Application of X-ray diffraction.
