

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

[M.PHARM 0922]

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

Sub. Code: 2945

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - II (PCI New regulations 2016)
PHARMACEUTICAL CHEMISTRY - MPC
PAPER I – ADVANCED SPECTRAL ANALYSIS**

Q.P. Code : 262945

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. A) Give the Mass Interpretation patterns for the following organic compounds:
a) Cyclohexene b) Naphthalene c) 2-butanol d) Benzamide.
B) Write the Principle with neat diagram of High performance Thin Layer Chromatography and its Application.
2. A) Write the Instrumentation of Ion exclusion chromatography and its application.
B) Write the Principle, Instrumentation and Application of ELISA.

II. Write notes on:

(7 x 5 = 35)

1. Woodward's Fieser Rule and its applications.
2. Write a note on Enzyme Linked Immuno Sorbent Assay.
3. Explain the Principle and Application of Differential Scanning Calorimetry.
4. Super critical fluid chromatography.
5. Mass Fragmentation and its rules.
6. Explain HECTOR and INADEQUATE Techniques.
7. Explain Ion Exchange chromatography.
