

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

[LQ 0121]

JANUARY 2021

Sub. Code: 2955

(APRIL 2020 EXAM SESSION)

M.PHARMACY DEGREE EXAMINATION

SEMESTER-II (PCI New regulations 2016)

PHARMACEUTICAL ANALYSIS – MPA

PAPER I – ADVANCED INSTRUMENTAL ANALYSIS

Q.P. Code : 262955

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Write the principle, instrumentation and application of Super Critical Fluid Chromatography.
b) Explain the principle and instrumentation involved in Capillary Electrophoresis.
2. a) Explain the principle, theory and instrumentation of Mass Spectroscopy.
b) Discuss about different types of peaks in Mass Spectroscopy.

II. Write notes on:

(7 x 5 = 35)

1. Explain the principle of NMR.
2. Write about type of columns used in Gas Chromatography.
3. Explain about HETP.
4. Discuss COSY techniques in NMR.
5. Explain in detail about APCI in Mass Spectroscopy.
6. Write the principle, stationary phase and mobile phase used in Affinity Chromatography.
7. Write about the high performance liquid chromatography in Chiral Analysis and its applications.
