

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

[LO 991]

MAY 2019

Sub. Code: 2991

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

Q.P.Code: 262991

Time: Three hours

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the construction and working of a Double beam UV-Spectrophotometer.
2. Write the principle, instrumentation, chromatographic parameters and applications of Gas Chromatography.

II. Write notes on:

(7 x 5 = 35)

1. Gel Filtration Chromatography.
2. Predict the splitting pattern for 1, 1, 2 tri bromo ethane in ^1H NMR.
3. Give the fragmentation pattern for n-octane.
4. Principle and Pharmaceutical applications of DTA.
5. Time of flight analyzer.
6. Quenching.
7. Spin-Spin coupling.
