

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

[LO 945]

MAY 2019

Sub. Code: 2945

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

*Q.P. Code : 262945*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain the Interpretation of NMR spectroscopy.
2. Explain the woodward - Fieser rule in Cyclic dienes and discuss the ATR - IR.

**II. Write notes on:**

**(7 x 5 = 35)**

1. 2-D NMR.
2. Meta Stable ions.
3. Flash Chromatography.
4. GC – MS.
5. ELISA.
6. Write the Principle, Instrumentation & applications of Raman Spectroscopy.
7. Short note on TGA.

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