

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

**[PHARMD 0122]**

**JANUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 3814**

**PHARM. 'D' DEGREE EXAMINATION  
THIRD YEAR (2009-2010 Regulation)  
PAPER II – PHARMACEUTICAL ANALYSIS  
*Q.P. Code : 383814***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Write the theory and applications of UV – Spectrophotometry.
2. Explain in detail about detector used in gas chromatography.
3. Give an account of principle and types of amperometric titration.
4. Write in detail the theoretical aspects and application of IR spectra.

**II. Write notes on:**

**(6 x 5 = 30)**

1. How will you prepare and activate TLC Plates?
2. Write in detail about fragmentations in Mass Spectroscopy.
3. Different types of quenching encountered in Fluorimetry.
4. Describe the different types of development techniques in Paper Chromatography.
5. Write a note on total quality management.
6. Explain the different types on Electronic transitions.

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