

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

[LN 354]

OCTOBER 2018

Sub. Code: 2915

**M.PHARM. DEGREE EXAMINATION  
FIRST YEAR  
BRANCH V – PHARMACEUTICAL ANALYSIS  
PAPER III – ADVANCED PHARMACEUTICAL ANALYSIS**

*Q.P. Code : 262915*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Give the determination of physicochemical methods of analysis of:  
a) Barbituric acid      b) Rauwolfia      c) Riboflavin      d) Strophanthin
2. a) Describe the concept of analytical method development while using GC.  
b) Explain the methods for the estimation of ester and Ketone.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Give the methods for the validation and calibration of HPTLC.
2. Add a detailed note for the determination of Cinchona.
3. Explain the official methods for the determination of Vitamin A.
4. Give the applications of 1, 2 – Naphthoquinone 4- Sulphonate.
5. Give the principle and procedures involved in bio-availability.
6. Explain the procedure for the microbiological assay of tetanus antitoxin.
7. Describe the methods to determine the X-ray powder diffraction.
8. How are the elements of sodium and bromine are determined?
9. Describe the methods to determine the steroids.
10. Give the methods for the validation and calibration of IR spectrophotometer.

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