

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

[LQ 0121]

**JANUARY 2021**

**Sub. Code: 2915**

**(APRIL 2020 EXAM SESSION)**

**M.PHARMACY DEGREE EXAMINATION**

**FIRST YEAR**

**BRANCH V – PHARMACEUTICAL ANALYSIS**

**PAPER III – ADVANCED PHARMACEUTICAL ANALYSIS**

***Q.P. Code : 262915***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Describe the concept of analytical method development while using HPLC.  
b) Explain the methods for the estimation of Amine and Aldehyde groups.
2. Give the official methods with principle and procedure for the determination of:  
a) Cholesterol    b) Chloramphenicol    c) Morphine    d) Strophanthin

**II. Write notes on:**

**(10 x 6 = 60)**

1. Describe the methods for the validation and calibration of Gas chromatography.
2. Write in detail about for the determination of Vitamin – A.
3. Explain the official methods for the analysis of Digitoxin.
4. How the elements of Iodine and Sodium are determined?
5. Give the various applications of Ninhydrin as an analytical tool.
6. Elaborate about X-ray powder diffraction studies.
7. Explain the procedure for the microbiological assay of Cyanocobalamine.
8. Enumerate principle and procedure involved in BABE analysis.
9. Describe the biological assay of Adsorbed Diphtheria antitoxin as per I.P.
10. Explain the usage of 2, 6-Dichloro quinone chlorimide reagent with principle.

\*\*\*\*\*