

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

[LM 354]

MAY 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 official methods with principle for the determination of:
a) Androgens b) Vitamin E c) Ergot d) Sulphonamides
2. Explain the procedure and principle involved in the application of following analytical reagents:
a) 2, 4 – Dinitro phenyl hydrazine b) 1, 2-Naphthoquinone 4-sulphonate

II. Write notes on:

(10 x 6 = 60)

1. Detail about the validation and calibration procedure applied for Infra red spectrophotometer.
2. Write about the various analytical procedure applied for the estimation of Vit-A.
3. Explain the methods and principle involved in the estimation of ester function.
4. Write about the analytical procedure applied for the estimation of opium alkaloids.
5. Write detailed note on determination of potassium and calcium.
6. Describe the principle and procedure involved in the LAL'S test.
7. Write the principle and procedure involved in the fluorimetric estimation of quinine sulphate.
8. Describe the biological assay method for the determination of Rabies vaccine.
9. Write in detailed about bio-availability and bio-equivalence.
10. Add a detailed note for the determination of Penicillin.
