

[LI 354]

APRIL 2016

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. Describe the official methods with principle for the determination of :
a) Sulfamethoxazole b) Retinol c) Digoxin d) Erythromycin
2. a) Write the principle and procedures involved in the Biological assay of:
i) Tetanus antitoxin ii) Oxytocin
b) How do you test the effectiveness of antimicrobial preservatives as per I.P?

II. Write notes on:

(10 x 6 = 60)

1. Give the applications of 2, 4-dinitrophenyl hydrazine as an analytical tool.
2. How the elements of sodium and bromine are determined?
3. Describe the methods for the validation and calibration of HPLC.
4. Write in detail about the qualitative and quantitative analysis of caffeine.
5. Explain the methods for the estimation of hydroxyl group.
6. Describe the concept of analytical method development while using GC.
7. Describe any one method for the determination of particle size.
8. Describe the usage of 2, 6-dichloroquinone chlorimide reagent with principle.
9. Suggest the methods for the estimation of ester group with chemical equations.
10. Give the principle and procedures involved in LAL's test.
