

[LF 354]

OCTOBER 2014

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. Explain the principles and procedures for the following reagents in pharmaceutical analysis:
 - a) 1, 2 naphthoquinone 4-sulphate
 - b) 3-Methyl 2-benzothiazoline hydrazone
 - c) Para – dimethyl amino Benzaldehyde
 - d) 2, 3, 5- triphenyl tetrazolium salt
2.
 - a) Write the importance of particles size analysis and discuss the methods in detail.
 - b) What is x-ray powder diffractions? Discuss its applications in pharmacy.

II. Write notes on:

(10 x 6 = 60)

1. Give the principle and procedures involved in *Therapeutic Drug Monitoring*.
2. Write about the analytical method for evaluation of ergot alkaloids.
3. Elucidate about validation and calibration of a HPLC instrument.
4. Give complete methods for the estimation of progesterone in formulations.
5. Give the applications for Folin-ciocalteau reagent in pharmaceutical analysis.
6. How will you determine the hormone androgens in pharmaceutical dosage form?
7. Write in detail about the analysis of antibiotic Penicillin.
8. Write short note on analysis of opium alkaloids.
9. Suggest the various methods involved in the determination of cinchona alkaloids.
10. Elucidate the physicochemical and instrumental analysis of adrenocortico steroids.
