

[LL 354]

OCTOBER 2017

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. a) Describe the concept of analytical method development while using UV-Visible spectrophotometer.
b) Explain the methods for the estimation of hydroxyl and aldehyde groups.
2. Give the principle and procedure involved in the determination of
a) Cholestrol b) Digoxin c) Phenobarbitone d) Tocopherol

II. Write notes on: **(10 x 6 = 60)**

1. Write the methods for the validation and calibration of HPLC.
2. Give the applications of para dimethyl amino benzaldehyde (PDAB) reagent as analytical tool.
3. Explain the procedure for the microbiological assay of cyanocobalamine.
4. Give the principle and procedure involved in TDM.
5. Describe the biological assay of adsorbed diphtheria antitoxin.
6. Explain any two methods to determine the particle size of solid excipients.
7. Explain the applications of 3-methyl – 2-benzothiazolinone hydrazone (MBTH) as an analytical reagent.
8. How are the elements of potassium and iodine are determined?
9. Explain the official methods for the determination of ascorbic acid.
10. Add a detailed note for the determination of Streptomycin.
