

Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination - May 2016

Time: Three Hours Max. Marks: 100 Marks

INSTRUMENTAL METHOD OF ANALYSIS

(Revised Scheme 4)

Q.P. CODE: 9359

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 20 = 40 Marks

- a) Describe various methods employed in the particle size analysis.
 - b) Discuss the principle and applications of Raman spectroscopy.

(10+10)

- Discuss the principle involved in the analysis of two barbiturates and two anti-tubercular drug. (20)
- 3 a) Principle involved in the assay of Vitamin A and Vitamin B₂.
 - b) Principle involved in quantitative estimation of drugs containing Carbonyl functional group and their applications. (10+10)

SHORT ESSAYS (Answer any FIVE)

5 x 10 = 50 Marks

- Describe the principle and procedure involved in analysis of any three alkaloids.
- Write briefly about different methods for the estimation of primary, secondary and tertiary amines.
- Mention the principle involved and applications of MBTH reagent and Bratton Marshall reagent.
- Describe the meaning of the following as per Pharmacopoeia.
 - i) Expression of concentration
 - ii) Excipients
 - iii) Crude drug
 - iv) Storage
- 8. Describe the analytical importance of 2,6-dichloroquinonechlorimide and Ninhydrin reagent.
- Write a brief note on instrumental methods for product characterization with examples.

SHORT NOTES 2 x 5 = 10 Marks

- Validation of analytical methods.
- Principle involved in the analysis of radiopharmaceuticals.

