

Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination - Oct/Nov 2014

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

- Explain detail principles and procedures involved in the methods of analysis for following dosage forms.
 - a) Anti-tubercular drugs b) Local anaesthetics c) Sulphonamides
- Discuss principle and procedures involved in the quantitative determination of Carbonyl group, carboxylic acid and amines.
- 3 a) Explain methods of particle size analysis and X-ray powder diffraction.
 - b) Discuss theory and applications of Raman Spectroscopy and Inductively Coupled Plasma-Optical Emmision Spectrometers (ICP-OES).

SHORT ESSAYS (Answer any FIVE)

5 x 10 = 50 Marks

- Describe principle and procedure involved in the use of Ninhydrine & FC reagents in pharmaceutical analysis.
- 5. Write various quantitative methods of analysis of diuretics and analgesics & antipyretics.
- Write principle and procedures involved in the analysis of steroids and antibiotics.
- 7. Write note on the following a) Turbidimetry b) Quality control of Radiopharmaceuticals.
- Describe application of instrumental methods in product characterization for product development.
- 9. Write a note on methods of analysis for sulphonamides.

SHORT NOTES 2 x 5 = 10 Marks

- Discuss application of SEM in particle size analysis.
- 11. Write note on ICH guidelines in method validation.

