Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination - Mar 2013

Time: Three Hours Max. Marks: 70 Marks

PHARMACEUTICAL ANALYSIS

Q.P. CODE: 2862

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

LONG ESSAYS 2 x 10 = 20 Marks

- 1. a) Explain the principle of IR spectroscopy
 - b) What are modes of vibrations in poly atomic molecules?
- 2. Write principles of chromatography and draw neat labeled diagram of HPLC instrumentation and explain the different parts of it
- 3 Explain the theory of fluorimetry and explain the factors affecting the fluorescence

SHORT ESSAYS $6 \times 5 = 30 \text{ Marks}$

- 4. What are the factors affecting in flame photometric analysis
- 5. Write a note detectors used in IR spectrophotometer
- 6. With example, explain cation and anion exchanger
- 7. What are the differences between TLC and HPTLC
- 8. Explain electromagnetic spectrum
- 9. Explain working of FID in gas chromatography
- 10. What are effect of solvent and conjugation in UV spectroscopy
- 11. Explain different type's conductometric titration

SHORT ANSWERS $10 \times 2 = 20 \text{ Marks}$

- 12. What are reference electrodes
- 13. What is ICH guidelines and ISO 9000
- 14. Define validation and quality control
- 15. What are importance of visualizing agents in TLC
- 16. Define choromophore and auxochrome
- 17. Importance of fingerprint region in IR spectroscopy
- 18. What is thermistors and thermocouple
- 19. Applications of atomic absorption spectrometry
- 20. Define and classify chromatography
- 21. Applications of potentiometry
