



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 x 5 = 30 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 x 2 = 20 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 chromophore 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
