

Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – Feb / Mar 2012

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. Explain the construction and working of any monochromators and detectors used in UV – Visible spectroscopy
2. Write the construction, working, advantages and disadvantages of calomel electrode
3. With a neat diagram, explain the different parts and working of Gas Liquid Chromatography

SHORT ESSAYS

6 x 5 = 30 Marks

4. Explain the different sampling techniques in IR spectroscopy
5. What are the molecular factors affecting intensity of fluorescence
6. Explain anion and cation exchange resins
7. Explain about wet packing and dry packing of the column chromatography
8. Give details about flame temperatures and Nebulisation in flame photometry
9. Explain the theory & applications of HPTLC
10. Write a note on conductometric titrations
11. Describe the preparation of plates and adsorbents used in TLC

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write the working principle of Atomic Absorption Spectroscopy
13. Write the principle of separation in Gel electrophoresis
14. Define blue shift and red shift
15. What is absorption maxima and mention its significance
16. Name various regions of Electromagnetic spectrum
17. Name the list of radiation sources used in IR spectrometry
18. Differentiate between TLC and paper chromatography
19. Define gradient elution and isocratic elution
20. What is guard column? Mention its significance
21. Expand and explain HETP
