

Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – Aug 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) Derive Beer's and Lambert's law
b) What are the applications, advantages and limitations of Beer's law
2. Write principle of electrophoresis and draw neat labeled diagram and explain the methodology used in paper electrophoresis
3. *What are Conductometric Titrations and discuss their applications*

SHORT ESSAYS

6 x 5 = 30 Marks

4. What are the factors affecting the fluorescence
5. *Write a note on spectro photometric titration*
6. *Explain different types of ion exchangers*
7. Write working of bolometer
8. *What is validation? What are the requirements of analytical instrument validation*
9. Explain deformation vibration in IR spectroscopy
10. What are effect of solvent and conjugation in UV spectroscopy
11. Karl fischer titration

SHORT ANSWERS

10 x 2 = 20 Marks

12. What are indicator electrodes
13. Define molar conductivity and specific conductance
14. Define quality control and quality assurance
15. Adsorbents used in TLC
16. Define ion exchange capacity
17. Importance of fingerprint region in IR spectroscopy
18. Preparation of TLC plate
19. What are the factors affecting in column efficiency
20. Define filters and monochromators
21. What are the ideal characters of mobile phase in gas chromatography
