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Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – Sep 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

 Derive Beer's and lamberts law. Write its applications, advantages and limitations of Beer's law

- Write principles of gas liquid chromatography and draw neat labeled diagram of GC instrumentation and explain the different parts of it
- 3 a) Explain the theory and nebulisaton of flame photometry
 - b) What are the interferences in flame photometry

SHORT ESSAYS 6 x 5 = 30 Marks

- 4. What are the factors affecting fluorescence in fluorimetric analysis
- 5. Write a note on photometric titration
- Explain different types of ion exchangers
- 7. How will you select adsorbents and solvents for TLC
- 8. What is validation? What are the requirements of analytical instrument validation
- 9. Explain deformation vibration in IR spectroscopy
- What is the effect of solvent and conjugation in UV spectroscopy
- Karl Fischer titration

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

- What are indicator electrodes
- Define molar conductivity and specific conductance
- Define quality control and quality assurance
- 15. What are sililyting agents
- 16. Values in paper chromatography
- Importance of fingerprint region in IR spectroscopy
- 18. Classify of paper chromatography
- 19. Applications of atomic emission spectroscopy
- 20. Define and classify monochromators
- 21. What are the ideal characters of mobile phase used in HPLC?

