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Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination NOV 2016

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 (Answer any Two)

- 1. Define and derive Beer's Lambert law. Write a note on limitation of this law.
- 2. Describe the instrumentation and applications of HPLC in detail.
- 3 Explain a) The theory of conductometry.
 b) Different types of conductometric titrations
 c) Applications of conductometry. (3+5+2 = 10 marks)

SHORT ESSAYS (Answer any Six)

- 4. Explain the different sampling techniques used in IR spectroscopy.
- 5. Explain the construction and working of glass electrode.
- 6. Explain different ion exchange resins with examples used in ion exchange chromatography.
- 7. Explain the principle and application of gel filtration.
- 8. What is fluorescence and phosphorescence? Explain the concept of fluorescence through energy level diagram.
- 9. Classify the detectors used in gas chromatography and explain flame ionization detector in detail.
- 10. Explain the nebulisation technique in flame photometry.
- 11. Describe the various development techniques used in paper chromatography.

SHORT ANSWERS

- 12. Define Bathochromic shift and hypsochromic shift.
- 13. Application of Potentiometry.
- 14. Note on Paper Electrophoresis.
- 15. List out radiation sources used in IR spectroscopy.
- 16. Applications of HPTLC
- 17. List out the various adsorbents used in TLC.
- 18. Define and classify quenching.
- 19. What is guard column? Mention its significance.
- 20. Name two fluorescent indicators.
- 21. Define validation as per ICH guidelines.

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2 x 10 = 20 Marks

6 x 5 = 30 Marks

10 x 2 = 20 Marks