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Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination - NOV 2017

Time: Three Hours

Max. Marks: 70 Marks

PHARMACEUTICAL ANALYSIS (RS & RS2) Q.P. CODE: 2862

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (answer any two)

2 x 10 = 20 Marks

- With a neat labeled diagram, explain the working principle and instrumentation of HPLC
- Describe the principle of Potentiometric titrations? Write the construction and working of a calomel electrode & glass electrode?
- Explain various methods of preparing TLC plates and its applications.

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

- 4. Explain the concepts of statistical quality control
- What is the principle in a) Normal-Phase Chromatography b) Reverse -Phase Chromatography c)
 Ion- Exchange Chromatography d) Ion-pair Chromatography
- Write a brief note on HPTLC
- Explain the term- Red Shift, Blue Shift, hypochromic shift, hyperchromic shift giving suitable examples for each along with λmax and Σ values.
- Write a note on ICH Guidelines
- 9. Explain the principle underlying "Dead- Stop end point technique" and Null point potentiometry
- What is the principle involved in conductometric titrations? Explain with the help of different titration curves.
- 11. What is Nebulization? Write a note on burners used and their significance.

SHORT ANSWERS 10 x 2 = 20 Marks

- 12. Explain the various region of electromagnetic spectrum
- 13. Mention the electronic transitions in UV spectroscopy
- 14. Differentiate between fluorescence from phosphorescence
- What is self quenching
- Give the application of ESR
- What is K-band? Give example
- 18. How is the efficiency of an ion-exchange resin measured?
- What is C₁₈ or ODS? What is its use in Chromatography
- 20. What is the relationship between emf & pH?
- 21. What are auto titrimeters? What is the principle of operation?
