www.FirstRanker.com

www.FirstRanker.com

Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination - 04-Jan-2020

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

- Explain in detail the detectors used in IR spectroscopy.
- Explain the principle involved in fluorimetric estimation with the help of two pharmaceutically important compounds.
- Describe the construction, working and applications of Standard Hydrogen Electrode.

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

- 4. Describe the construction and working of a Gas Chromatography
- How do you differentiate between fluorescence and phosphorescence? Give the applications of fluorimetry
- Explain the terms Bathochromic ,hypsochromic, hyperchromic shifts
- Discuss chemical shift and its utilization in NMR spectroscopy
- 8. Discuss the diffraction patterns of X-ray diffraction
- 9. Write a note on Development Techniques in column chromatography
- Explain how do you perform Quantitative analysis in Paper chromatography.
- Describe the principle and applications of Electrophoresis.

SHORT ANSWERS

10 x 2 = 20 Marks

- Define the terms wave length and frequency.
- Effect of PH on the fluorescence of substance.
- 14. Name any two substances that can be analysed by thermal analysis.
- Name the types of ions used in mass spectra
- Explain the method of estimation of riboflavin
- Give the fuel combination in flame photometry
- What is self quenching
- Define Chromatography & Rf values
- 20. How is activation of TLC plates done?
- 21. What is an ion-exchange resin? Give an example of natural resin a) Cation b) Anion
