Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – Aug / Sep 2011

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. Compare the principle, technique, limitations and applications of paper chromatography with paper electrophroesis
2. Write the principle, instrumentation and applications of flame photometry
3. Discuss the phenomenon of Fluorescence. Explain the working of a fluorimeter with a suitable diagram

SHORT ESSAYS **6 x 5 = 30 Marks**

4. Explain the working of a photomultiplier tube
5. Describe the construction and working of glass electrode
6. Describe the various development techniques used in paper chromatography
7. Define quenching. Explain the different types of quenching
8. Write a note on columns used in gas chromatography
9. Write a note on total quality management
10. Describe the construction and working of Hydrogen electrode
11. Explain the principle and working of solute property detectors used in HPLC

SHORT ANSWERS **10 x 2 = 20 Marks**

12. Define equivalent conductance and specific resistance
13. What are the advantages and limitations of TLC
14. Expland and explain WCOT and SCOT
15. Write a note on common solvents used in UV spectroscopy
16. Write a note carrier gases used in gas chromatography
17. What is Hollow cathode lamp and explain its importance in atomic absorption spectroscopy
18. What are the different types of vibrations in polyatomic molecules
19. Write a note on programmed temperature in Gas chromatography
20. Write a note on frontal analysis
21. Write the principle of IR spectroscopy

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