

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - NOV 2016

Time: Three Hours**Max. Marks: 70 Marks**

PHARMACEUTICAL INORGANIC CHEMISTRY

Q.P. CODE: 2855

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**

1. Write the principle involved in the limit test for Arsenic with suitable reaction. Give the procedure with neat labelled diagram of apparatus used.
2. Write the principle, storage and assay procedure involved in potassium permanganate and ferrous sulphate.
3. Define and classify intracellular and extracellular electrolytes with examples. Write their importance in the body.

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Discuss the various solvents used in non-aqueous titration.
5. Write a brief note on essential trace elements and explain the physiological roles of Iron, Zinc and Chromium.
6. Write the assay of calcium gluconate by complexometric method.
7. What are systemic alkaliser and acidifiers? How do they act? Give suitable examples.
8. Write the preparation, storage, uses and labeling for Carbon dioxide.
9. Explain any two theories of indicators.
10. Write a detailed note on antimicrobials.
11. Give the preparation, storage, labeling, category and assay of sodium bicarbonate.

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

12. Explain Bronsted Lowry theory of acids and bases.
13. Define dentifrices. Give examples.
14. Give the medicinal uses of Talc powder and Boric acid.
15. Explain volumetric analysis.
16. What is the difference between antiseptic and disinfectant?
17. Give zinc stearate formula, uses and storage conditions.
18. Mention the pharmaceutical use of zinc chloride.
19. What are acid-base indicator?
20. Define sclerosing agents with examples.
21. Calculate the amount of NaCl in grams that is present in two liters of 0.9%w/v solution.
