

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B. Pharm Degree Examination – 13-Jan-2020

Time: Three Hours**Max. Marks: 70 Marks****PHARMACEUTICAL INORGANIC CHEMISTRY (RS - 4)****Q.P. CODE: 2629**

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. Explain the various sources of impurities in pharmaceuticals. Discuss the importance of limit tests in quality control of pharmaceuticals.
2. What are Antacids? Classify them with examples. Give the ideal properties of antacids. Write the preparation, assay and uses of Sodium bicarbonate.
3. a. Discuss the physiological acid base balance in the body.
b. Write a note on combination of electrolyte replacement therapy.

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

4. Define limit test. Write the principle, reactions and procedure for the limit test for Iron
5. Define complexometric titration. Write the principle and reaction involved in the assay method of calcium gluconate.
6. Write a note on titration of potassium iodide by using potassium iodate solution.
7. Write the method of preparation and standardization of 250 ml of 0.1 M sodium hydroxide solution.
8. Explain the mechanism of action of indicators in Fajan's method.
9. Define and classify antidotes with examples. Write a note on activated charcoal.
10. Explain the different methods of expressing concentration of a solution with examples.
11. Name the different types of solvents used in non-aqueous titrations and explain their uses in different titrations.

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

12. Write the role of lead acetate cotton wool in arsenic limit test.
13. What is achlorhydria? Give its treatment.
14. What are emetics? Give example.
15. Give the storage condition of potassium permanganate and iodine solution.
16. Define the term titration, titrant, titrand and equivalent point.
17. What are acid base indicators? Give examples
18. Calculate the gram equivalent weight of Sodium thiosulphate and potassium permanganate.
19. Differentiate between accuracy and precision.
20. Give the role of starch as indication in redox titrations
21. Why are nitrobenzene and nitric acid used in modified Volhard's method?
