

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Degree Examination – 25-Mar-2021

Time: Three Hours

Max. Marks: 70 Marks

PHARMACEUTICAL INORGANIC CHEMISTRY (RS2)

Q.P. CODE: 2878

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 different theories of indicators with examples.
2. Discuss the principle, reactions and apparatus of arsenic limit test.
3. Define and classify precipitation titrations. Explain the principle and reactions involved in the assay of sodium chloride by Volhard's method.

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Explain the neutralization curve of titration of 100ml hydrochloric acid with sodium hydroxide.
5. Write the preparation and standardization of 0.1N Potassium permanganate solution.
6. What are non-aqueous titrations? Write the types of solvents used in these titrations.
7. Write in detail principle for complexometric titration with suitable example.
8. Explain the different types of errors in volumetric analysis and ways to minimize them.
9. What are antacids? Write the characteristics of an ideal antacid. Write the preparation of Magnesium hydroxide.
10. Describe the important functions of bicarbonate and sodium ions in the body.
11. What are inhalants? Give the method of preparation and uses of nitrous oxide.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Applications of radio isotopes.
13. What are chelating agents? Give examples.
14. Complete and balance the following equations
 - a) Potassium permanganate + Sulphuric acid $\rightarrow$
 - b) Sodium thiosulphate + Iodine $\rightarrow$
15. Define achlorhedria and hyperchlorhedria.
16. What are significant figures give two examples?
17. Define astringents with examples.
18. Define the term normality and molarity.
19. What are the limitations of gravimetric analysis?
20. Write the composition and uses of ORS.
21. What are Antidotes? Give two examples.
