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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B. Pharm Degree Examination – 25-Nov-2022

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

PHARMACEUTICAL INORGANIC CHEMISTRY (RS4)

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. Discuss the principle and reactions involved in the assay of boric acid and potassium permanganate
3. Explain the principle and reactions involved in the assay of ferrous sulphate and ammonium chloride

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

4. What is precipitation titration? Explain the assay of NaCl by Volhard's method
5. Define and explain the mechanism of action of saline cathartics
6. What are GIT agents? Classify them with structural examples. Write a note on acidifiers
7. What are different types of errors? Write any two methods to minimize errors
8. Define limit test? Discuss in detail the limit test for chloride
9. Write a note on theory of acid base indicators
10. Write the principle reaction and procedure for the non aqueous titration of sodium benzoate
11. Write the preparation and standardization of 0.1 N hydrochloric acid

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

12. What are Expectorants? Give structural examples
13. Define the term bactericidal and astringent
14. Give the role of starch as indicator in redox titrations
15. Why distilled water is used in the preparation of silver nitrate solution?
16. Name two official iodine preparations, give composition
17. What are heavy metals? Give examples
18. What are the ideal properties of primary standards?
19. Name two medicinal gases with their uses
20. What is the role of thioglycollic acid in iron limit test? Give reaction
21. What are antimicrobial agents? Give structural examples

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