

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Degree Examination – 11-Dec-2020

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. What are Non-aqueous titrations? Explain in detail the types of solvents used in non-aqueous titrations. Write a note on application in pharmacy
2. Explain the mechanism of maintenance of physiological acid base balance. Write a note on biochemical and biological role of  $\text{Na}^+$  and  $\text{HCO}_3^-$  ions in the body.
3. What are antacids? Give the Ideal properties of antacids. Discuss the preparation, assay and uses of Sodium Bicarbonate.

### SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Explain the different types of Errors in volumetric analysis and ways to minimize them.
5. Explain Iodometry and Iodimetry with examples.
6. What is Fajan's method? Explain by taking suitable example.
7. List out different methods in Complexometry. Add a note on Masking and Demasking agents.
8. Write the Principle, reactions and procedure involved in the limit test for iron.
9. Define Cathartics. Give the preparation, assay and uses of Magnesium sulphate.
10. Describe the various mechanism of action of Inorganic anti-microbial agents.
11. Describe the method of preparation of any two dental products.

### SHORT ANSWERS

10 x 2 = 20 Marks

12. Define Acidimetric and Alkalimetric titrations
13. How do you prepare 100ml of 0.1 N Oxalic acid solution?
14. Explain the principle involved in the Gravimetric analysis with one example
15. Write the labeling, storage condition and uses for Oxygen.
16. What are acidifiers? Give examples.
17. What is the Source and biological importance of Iron.
18. What is Dental caries? Name two anticaries agents
19. Give any one example for Expectorant & Sedative.
20. What is the use of Glycerine in Boric acid assay?
21. Define Nuclide and Isotopes.

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