

# Rajiv Gandhi University of Health Sciences, Karnataka

1 Year Pharm-D Degree Examination – JUNE-2019

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 principle and procedure involved in the limit test for Arsenic with a neat labelled diagram of Gutzeit's apparatus.
2. Explain Volhard's method of estimation of halides. Write the theory of adsorption indicators in Fajan's method.
3. List out major intra and extra cellular electrolytes. Explain the preparation and uses of dextrose and sodium chloride injection.

### SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Write briefly the various theories of Neutralization indicators.
5. Define Permanganometric titrations and explain with one example.
6. How do you prepare and standardize 0.1N Perchloric acid ( $\text{HClO}_4$ ).
7. Write the general principle involved in the Complexometric titration. What are ligands and their types.
8. Give the method of preparation and uses of Aluminium hydroxide gel.
9. Discuss the importance of Sodium and Calcium ions in the human body.
10. Write the principle, reactions and procedure involved in the limit test for iron.
11. Give the preparation, assay and uses of boric acid.

### SHORT ANSWERS

10 x 2 = 20 Marks

12. How many ml of 0.2N Hydrochloric acid is required for the complete neutralization of 25ml of 0.5N Sodium hydroxide solution?
13. Explain the importance of Significant figures.
14. What are Sequestering agents? Give examples.
15. Write the formula and uses of ORS.
16. Give two examples for antioxidants.
17. Write about Desensitizing agents.
18. What is meant by Sclerosing agents?
19. Define Cathartic & Acidifiers.
20. Discuss the role of Oxygen and Carbon dioxide in biological system.
21. Define Radiopharmaceuticals with example.

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