

# Rajiv Gandhi University of Health Sciences, Karnataka

First Semester B.Pharm Degree Examination – 23/Oct/2025

Time: Three Hours

Max. Marks: 75 Marks

## PHARMACEUTICAL INORGANIC CHEMISTRY

**Q.P. CODE: 5004**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

All the questions are compulsory

### LONG ESSAYS

**2 x 10 = 20 Marks**

1. What are impurities? Explain the sources of impurities in pharmaceutical substances.

**OR**

What are antacids? Write the ideal properties of antacids. Write the preparation assay and uses of sodium bicarbonate.

2. Write the principle and reactions involved in the assay of ammonium chloride and chlorinated lime.

### SHORT ESSAYS

**7 x 5 = 35 Marks**

3. What are expectorants? Give the method of preparation of potassium iodide.

**OR**

Write the construction, working principle of Geiger-Muller counter with a neat labelled diagram.

4. Add a note on Dental products with any one preparation.

**OR**

Discuss emetics with preparation of copper sulphate.

5. Explain in brief about the mechanism of action of Antimicrobial agents of each class.

6. What are Haematinics? Write the preparation and assay of Ferrous sulphate.

7. **Write the preparation, uses and assay of**

**a) Sodium thiosulphate b) Calcium Gluconate**

8. Write a note on antidotes.

9. Write the combination of electrolytes in ORS as per WHO.

### SHORT ANSWERS

**10 x 2 = 20 Marks**

10. Give the method of preparation of milk of magnesia.

11. Write the reaction for chloride limit test.

12. Define astringents with structural example.

13. Give the biological role of calcium and potassium.

14. **Give examples of buffers used in pharmaceutical system**

15. Write the role of potassium iodide in the assay of copper sulphate, give reaction.

16. Give the composition of aluminium hydroxide gel.

17. Write the role of lead acetate cotton wool in arsenic limit test.

18. List out the Iodine and its preparations.

19. How to measure tonicity?

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