

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

- 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.

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

SHORT ESSAYS

7 x 5 = 35 Marks

- 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.

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

OR

Discuss emetics with preparation of copper sulphate.

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

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

- Write the preparation, uses and assay of**

a) Sodium thiosulphate b) Calcium Gluconate

- Write a note on antidotes.

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

SHORT ANSWERS

10 x 2 = 20 Marks

- Give the method of preparation of milk of magnesia.

- Write the reaction for chloride limit test.

- Define astringents with structural example.

- Give the biological role of calcium and potassium.

- Give examples of buffers used in pharmaceutical system**

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

- Give the composition of aluminium hydroxide gel.

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

- List out the Iodine and its preparations.

- How to measure tonicity?
