# Rajiv Gandhi University of Health Sciences, Karnataka

**First Semester B.Pharm Degree Examination – 23-Nov-2022**

**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 ae compulsory

**LONG ESSAYS** **2 x 10 = 20 Marks**

1. Write the principle and reactions involved in the assay of i) calcium gluconate ii) copper sulphate.

   **OR**

   What are antacids? Classify them with examples, enlist their ideal properties and a note on combination therapy.

2. Explain the various sources of impurities occurring in pharmaceuticals with examples in detail.

**SHORT ESSAYS** **7 x 5 = 35 Marks**

3. Write the principle and reaction involved in the assay of a) Ammonium chloride and b) Bleaching powder.

   **OR**

   Explain the principle and reaction involved in the limit test for arsenic.

4. Write a note on storage and handling of radiopharmaceuticals.

   **OR**

   Write the principle and reactions involved in iron limit test.

5. Write the principle and reactions involved in lead limit test by dithizone method.
6. Explain the methods of adjusting isotonicity for pharmaceutical preparations.
7. Write the principle and reactions involved in the assay of sodium chloride.
8. Define dentifrices. Write the role of fluoride in dental products.
9. What are anti-microbials? Classify them with structural examples.

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

10. Write the role of dilute nitric acid in chloride limit test.
11. What are astringents. Give two examples.
12. Define desensitizing agent with examples.
13. Write the chemical composition and uses of bentonite.
14. Define haematinic with structural examples.
15. Define half life. Give the equation for half life in first order reaction.
16. Give one method of preparation of hydrogen peroxide with reaction.
17. Write the composition of ORS.
18. Define systemic acidifier with examples.
19. Define limit test and test for purity.

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