

# Rajiv Gandhi University of Health Sciences, Karnataka

## First Semester B.Pharm Degree Examination – JAN-2019

**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

**LONG ESSAYS (Answer any Two)****2 x 10 = 20 Marks**

1. What are buffers? Explain the mechanism of buffer action with an example. Briefly discuss the role of buffers in pharmacy.
2. What are antacids? Give the ideal properties of antacids. Discuss the synonym, method of preparation, assay and uses of Sodium bicarbonate.
3. Explain the principle, reactions and procedure involved in the assay of  
a. Ammonium chloride      b. Copper sulphate.

**SHORT ESSAYS (Answer any Seven)****7 x 5 = 35 Marks**

4. Explain the diagnostic and therapeutic applications of radioisotopes in detail.
5. Explain the preparation and principle involved in the assay of calcium gluconate.
6. What are antimicrobials? Give the method of preparation and principle involved in the assay of Chlorinated lime.
7. What are Hematinics? Write the preparation of i) Ferrous sulphate ii) Ferrous gluconate.
8. What are dental products? Discuss the role of fluoride in dental caries.
9. Write the principle, reaction and procedure involved in limit test for iron.
10. Give the assay principle and medicinal uses of Sodium thiosulphate.
11. Define antimicrobial agents. Write the principle involved in the preparation and assay of hydrogen peroxide.
12. What is saline cathartic? Write its mechanism of action. Give the preparation of any one cathartics.

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

13. Define expectorant. Give examples.
14. What is achlorhydria? Give its treatment.
15. Define desensitizing agent. Give examples.
16. Why dilute nitric acid is used in the limit test for chloride?
17. Write the limitations of Arrhenius theory.
18. Write the uses of sodium iodide  $I^{131}$ .
19. Define term antidotes. Give examples.
20. Write the preparation of boric acid.
21. Define saline Cathartic give examples.
22. Write about zinc eugenol cement.

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