

Rajiv Gandhi University of Health Sciences, Karnataka

First Semester B.Pharm Degree Examination – 05-Jun-2024

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. Give principle, procedure, and role of reagents involved in the limit test for a) Iron b) Lead.

OR

Discuss various types of physiological buffers. Explain the mechanism of their buffer action.

2. Explain the principle, reaction and procedure involved in assay of chlorinated lime and hydrogen peroxide.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Write the principle and reactions involved in the limit test for sulphate.

OR

What are buffered isotonic solutions? Give details.

4. What are dentifrices? Classify them with example. Write a note on role of fluoride as anticaries agent.

OR

What are antacids? Classify them with structural examples. State requirements for an ideal antacid.

5. Describe the properties of α , β and γ radiations.
6. Write a note on electrolyte replacement therapy, give compositions.
7. Define and classify antidotes with structural examples. Write a note on activated charcoal.
8. What are emetics? Write the method of preparation and assay of copper sulphate.
9. Describe the various mechanism of action of inorganic anti-microbial agents.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the principles and reactions involved in the limit test for chloride.
11. Write the Preparation and use of barium sulphate reagent.
12. Differentiate between limit test and test for purity.
13. Write the composition and uses of kaolin.
14. Write the preparation of boric acid.
15. Define antidote. Give structural examples.
16. Write the synonym for ferrous sulphate and copper sulphate & uses.
17. What is osmotic pressure and give buffer equation
18. Write the storage condition of sodium iodide I^{131} .
19. Classify extra and intra cellular electrolytes with examples.
