

# Rajiv Gandhi University of Health Sciences, Karnataka

First Semester B.Pharm Degree Examination – 17-Nov-2021

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

OR

Describe the principle, reactions and apparatus of arsenic limit test.

2. What are major intra and extra cellular ions? Write their functions.

### SHORT ESSAYS

7 x 5 = 35 Marks

3. Write the principle and reactions involved in chloride limit test.

OR

What are antacids? Classify them with examples? Add a note on combination therapy.

4. Write about buffers used in pharmaceutical preparations.

OR

Write the principle and reactions of lead limit test by Dithizone method.

5. How do you carry out the sulphate limit test for sodium benzoate?

6. Write a note on physiological acid base balance.

7. What are Haematinics? Write the principle and reactions involved in the assay of ferrous sulphate.

8. What are emetics? Write the principle and reactions involved in the assay of copper sulphate.

9. Write the one method of preparation for sodium bicarbonate and sodium thiosulphate.

### SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the role of citric acid in iron limit test.

11. Write the role of thioglycollic acid in iron limit test.

12. Define osmotic pressure and isotonic solution.

13. Define dentifrice with examples.

14. Write the chemical composition and uses of kaolin.

15. Write the uses of I<sup>131</sup>

16. Write the composition of ORS.

17. Give one method of preparation of hydrogen peroxide.

18. Define expectorant with examples.

19. Define astringent with examples.

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