Rajiv Gandhi University of Health Sciences, Karnataka

First Semester B.Pharm Degree Examination – 05-Jun-2023

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. Write the principle and reactions involved in the assay of i) chlorinated lime ii) ferrous sulphate.

   OR

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

2. What is buffer action? Explain various buffers used in pharmacy and add a note on buffer capacity

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

3. What are antacids? Classify them with examples, add a note on combination therapy.

   OR

   Derive Hendreson-Hasselbalch equation.

4. Write the principle and reactions involved in the assay of Sodium chloride.

   OR

   Write the principle and reactions involved in the assay of Ammonium chloride.

5. What are dental products? Classify them with examples, add a note on dentifrices.
6. Define anti-microbials. Write about iodine and its preparations.
7. What are antidotes? Classify them with structural examples? Write the mechanism of any one antidote.
8. Explain the diagnostic role and medicinal uses of radio pharmaceuticals.
9. Explain the precautions to be taken during storage and handling of radio pharmaceuticals.

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

10. Define limit test and test for purity.
11. Write the role of dilute nitric acid in chloride limit test.
12. Write the composition of ORS.
13. Define saline cathartics with structural example.
14. Write the composition and uses of sodium orthophosphate.
15. Define expectorant with structural example.
16. Give one method of preparation of copper sulphate, give reaction
17. Write the role if thioglycolic acid in iron limit test.
18. Write the significance of standard ethanolic sulphate solution in sulphate limit test.
19. Write the role of acetic acid and ammonia solution in heavy metal limit test.

*****