

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Pharm Degree Examination – 19-Nov-2021

Time: Three Hours**Max. Marks: 70 Marks****PHARMACEUTICAL INORGANIC CHEMISTRY (RS-3)****Q.P. CODE: 2605**

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. Define errors. Classify them with suitable examples. Write a note on methods used for the minimization of the errors.
2. What are redox titrations? Classify them with examples. Write the assay principle and reactions of Copper Sulphate and Hydrogen peroxide.
3. Define precipitation titration. Add a note on various methods used to detect end points in precipitation titration with suitable examples.

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Write the principle reactions involved in the limit test for Sulphate and Iron I.P.
5. Write a neat labeled diagram of Gutzeit's apparatus.
6. Write the methods of expression of concentration of volumetric solutions.
7. What are antacids? Classify them with examples. Give the assay principle and uses of aluminium hydroxide gel.
8. Define electrolytes. Explain the electrolyte combination therapy.
9. Give the pharmaceutical applications of non-aqueous titrations.
10. What are antidotes? Classify them with examples. Explain the role of sodium thiosulphate and sodium nitrite in cyanide poisoning.
11. Explain the methods of preparation, uses and labeling of carbon dioxide and Nitrous oxide.

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

12. Define primary standards with examples.
13. Give four examples for metal ion indicators.
14. Define titrant and titrate.
15. Role of glycerin in the assay of boric acid.
16. Standardization of 0.1 N Sodium hydroxide.
17. Role of sodium fluoride in dental caries.
18. What is the role of 20% W/V citric acid and Thioglycolic acid in the limit test for Iron.
19. Give four examples of solvents used in Non-aqueous titration.
20. Acid base indicators.
21. Define pharmaceutical acids with examples.
