Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Degree Examination – MAY-2018

Time: Three Hours **Max. Marks: 70 Marks**

PHARMACEUTICAL INORGANIC CHEMISTRY (RS2)

Q.P. CODE: 2878

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 and classify precipitation titrations. Give the principle and reaction involved in assay of NaCl by Aesthese method.
2. Give principle, procedure, reactions and role of reagents involved in the limit test for a) Iron b) Lead based on IP 1996 method.
3. Name the major physiological ions and write their role in the body. Add a note on physiological acid base balance.

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

4. Explain the Neutralization curve of a titration of 100ml HCl with NaOH.
5. Write the Preparation and Standardisation of 0.1N Potassium permanganate.
6. What are Non-aqueous titrations? Write the different solvents used in these titrations.
7. Write in detail principle for Complexometric titration with suitable example.
8. What are Antacids? Write the characteristics of an ideal antacid. Write the preparation of Magnesium hydroxide.
9. Write a note on Electrolytes used in replacement therapy
10. Explain the different types of errors in volumetric analysis and ways to minimize them.
11. Write the principle and reactions involved in limit test for Arsenic.

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

12. Methods to express the Concentration of solutions.
13. Give the pH range of Phenolphthalein and methyl orange indicators.
14. What is Co-precipitation.
15. Give the uses of Oxygen and Carbon dioxide.
16. Write the different types of cathertics.
17. Physiological role of Iodine.
18. Name two Antimicrobials with their molecular formula.
19. Differentiate between Water for injection and sterile water for injection.
20. Explain Desensitizing agents.
21. Write the types of Antidotes

*****