

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Year Pharma-D Examination - Sep 2012

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

### PHARMACEUTICAL INORGANIC CHEMISTRY

### Q.P. CODE: 2855

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. a) Define an antacid? Classify those giving examples. Why combination of compounds is preferred in antacid therapy **(4 marks)**  
b) Write the method of preparation and principle involved in the assay of Sodium Bicarbonate **(6 marks)**
2. a) Explain the principle involved in the limit test for Arsenic, with reactions **(5 marks)**  
b) Describe the Arsenic limit test apparatus, with neat labeled diagram **(5 marks)**
3. a) What are non-aqueous titrations? Write the principle, with reactions, involved in the assay of Sodium Benzoate **(5 marks)**  
b) Give any one compound which can be assayed by using modified Volhard's method. Write the principle and reactions involved in it **(5 marks)**

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

4. Define dental anti caries? Write a method of preparation, Properties, Storage conditions, use of Sodium Fluoride
5. Write preparation, principle involved in the assay and used of Boric acid
6. Name few extra and intracellular ions. Write the normal levels and physiological role of Calcium and Phosphate ions in the body
7. Write procedure and principle involved in Iron Limit Test
8. Define haematinics with examples? Write the method of preparation, principle involved in the assay of Ferrous Sulphate
9. Write preparation properties, storage, assay principle for chlorinated lime
10. What is saline cathartic? Write preparation and assay of Magnesium Sulphate
11. Write a note on theory of indicators

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

12. Write the composition of Barium sulphate reagent used in limit test for sulphates?
13. Give a method of preparation and use of Nitrous Oxide
14. Chloride limit test principle
15. Write the composition of Ringer lactate solution, mention its use
16. Complete and balance the following  $\text{Na}_2\text{S}_2\text{O}_3 + \text{I}_2 \longrightarrow$   
 $\text{Al}(\text{OH})_3 + \text{HCl} \longrightarrow$
17. Give one example for an acidifying agent and mention its use
18. What is the difference between Ferrous Sulphate and Dried Ferrous Sulphate?
19. Note on Barium Sulphate
20. Define the terms molarity, normality
21. Calculate the number of grams of NaCl in two litre of a 0.9% w/v solution

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