

**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**

- Define an antacid? Classify those giving examples. Why combination of compounds is preferred in antacid therapy **(4 marks)**
  - Write the method of preparation and principle involved in the assay of Sodium Bicarbonate **(6 marks)**
- Explain the principle involved in the limit test for Arsenic, with reactions **(5 marks)**
  - Describe the Arsenic limit test apparatus, with neat labeled diagram **(5 marks)**
- What are non-aqueous titrations? Write the principle, with reactions, involved in the assay of Sodium Benzoate **(5 marks)**
  - 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**

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

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

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

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