

Code No: 232AA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy I Year II Semester Examinations, May/June-2017

PHARMACEUTICAL INORGANIC CHEMISTRY

Time: 3 hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B.  
 Part A is compulsory which carries 25 marks. Answer all questions in Part A.  
 Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART-A****(25 Marks)**

- 1.a) Define limit test of pharmaceuticals with examples. [2]
- b) How do you classify inorganic pharmaceuticals based on therapeutic uses? [3]
- c) What is ORS, explain it? [2]
- d) What do you mean by acid base regulators give some examples? [3]
- e) Discuss the principle involved in the assay of magnesium oxide. [2]
- f) Define mineral supplements with examples. [3]
- g) Explain topical protectants with examples. [2]
- h) How silicon polymer acts as topical agents. [3]
- i) Differentiate astringent and oral antiseptics. [2]
- j) Write the preparation of barium sulphate. [3]

**PART-B****(50 Marks)**

- 2.a) Explain about different sources of impurities.
- b) Write the principle in detail for the limit test of Arsenic. [5+5]  
**OR**
- 3.a) How do you perform the test for the presence of ammonium compound in sodium bicarbonate?
- b) Explain the principle in detail for the limit test of chloride. [5+5]
- 4.a) What do you mean by sodium and potassium replenishes? Write the composition and functions of oral rehydration salts.
- b) Write the preparation and assay principle of calcium gluconate. [5+5]  
**OR**
- 5.a) Give an account on oral rehydration therapy.
- b) Explain the method of preparation and assay of sodium lactate. [5+5]
- 6.a) Define acidifiers. Write the method of preparation and assay of  $\text{Na}_2\text{HPO}_4$ .
- b) Write about the combination of antacid preparation. [5+5]  
**OR**
- 7.a) Give the classification of antacid. What are the qualities of ideal antacid preparation.
- b) Give the preparation, identification test, assay and medical uses dried aluminium hydroxide gel. [5+5]

- 8.a) Write the principle, procedure and uses involved in assay of Potassium iodide.
- b) Define haematinics? Give the preparation method and tests for purity of Ferrous sulphate. [5+5]  
**OR**
- 9.a) What is an antidote? Write the principle involved in the assay of Activated charcoal.
- b) Write about astringents? Describe the preparation and assay of Potash alum. [5+5]
10. Write a note on monograph of Sodium iodide. [10]  
**OR**
11. Explain the storage conditions and pharmaceutical application of Radioactive substances. [10]