

Code No. 4033

FACULTY

B. Pharmacy I – Year (Suppl.) Examination, October 2016

Subject: Pharmaceutical Inorganic Chemistry

Time: 3 Hrs

Max.Marks: 70

Note: Answer all questions. All questions carry equal marks.

- 1 a) Classify inorganic pharmaceuticals based on their therapeutic applications with examples. 8
 b) Explain the principle and procedure involved in the limit test for iron and sulphates. 3+3

OR

 c) Define limit test. Explain the principle and procedure involved in the limit test for arsenic with a neat labelled diagram. 1+8
 d) Write the general procedure for qualitative tests for cations. 5

- 2 a) What are electrolyte replenishers? Write the method of preparation, properties and assay of calcium lactate. 1+4
 b) Give the preparation, assay and uses of the following compounds. 3x3=9
 i) Magnesium sulphate ii) Potassium citrate iii) sodium bicarbonate

OR

 c) What are antacids? Give the preparation, properties and assay of magnesium carbonate and aluminium hydroxide gel. 1+4+4
 d) Write a note on hemodialysis fluids. 5

- 3 a) Give the preparation, properties, tests for purity and uses of sodium sulphite and ferrous sulphate. 4+4
 b) What are suspending agents? Add a note on activated charcoal. 1+5

OR

 c) Give the preparation and uses of the following:
 i) Sodium phosphate ii) Aluminium stearate iii) Zinc chloride 3x3=9
 d) Write a note on purified water. 5

- 4 a) Define expectorants. Give the preparation, properties assay and uses of potassium iodide and ammonium chloride. 1+5+5
 b) Explain the significance of nitrous oxide. 3

OR

 c) Give the preparation, properties, limit tests and uses of the following compounds:
 i) Sodium thiosulphate ii) Potassium antimony tartarate iii) Copper sulphate 5+5+4

- 5 a) Give the preparation, properties and uses of the following compounds: 4x3=12
 i) Barium sulphate ii) Zinc oxide iii) Potassium perchlorate
 b) Why fluorides are used as anticaries agents? 2

OR

 c) Explain the principle and procedure involved in the assay of hydrogen peroxide and potassium permanganate. 4+4
 d) Write a note on activated dimethicone. 6
