Code No. 8033

FACULTY OF PHARMACY

B.Pharmacy I - Year (Supplementary) Examination, October/November 2014

Subject : Pharmaceutical Inorganic Chemistry

Time : 3 Hours **Max. Marks: 70**

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

1 (a) Classify Inorganic pharmaceuticals based on their therapeutic classes with examples. (8)
(b) Write the principle and procedure involved in the limit test for : (3+3)
(i) Chlorides (ii) Sulphates

OR

(c) Explain the principle and procedure involved in the limit test for Arsenic with a neat labeled diagram. (8)
(d) Give two characteristic tests for any one cation and anion with reactions. (6)

2 (a) List out official compounds of calcium used as calcium replenishers. Explain the method of preparation, and assay on any one. (2+3)
(b) Write a note on light kaolin. (3)
(c) Mention the method of preparation and uses of (3+3)
(i) Aluminium hydroxide gel (ii) Potassium citrate

OR

(d) What are Laxatives? Mention the method of preparation, and test for purity of magnesium sulphate. (1+4)
(e) Write a note on Intraperitoneal Dialysis fluids. (3)
(f) Mention the properties and uses of (3+3)
(i) Rigner's solution and (ii) Sodium bicarbonate

3 (a) What are antioxidants? Write the method of preparation and properties of (2+4)
(i) Sodium sulphite (ii) Sodium metabisulphite
(b) Write a note on : (4+4)
(i) Bentonite (ii) Activated charcoal

OR

(c) Mention the method of preparation, assay and uses of (3+3+3)
(i) Ferious Sulphate (ii) Sodium phosphate (iii) Zinc chloride
(d) Write a note on purified water. (5)

4 (a) What are Expectorants? Write the method of preparation, properties and Tests for purity of (1+7)
(i) Ammonium Chloride (ii) Potassium Iodide
(b) Write a note on Inhalants. (6)

OR

(c) What are Emetics? Write the principle and procedure involved in the assay of copper sulphate. (2+4)
(d) Mention the method of preparation, properties and uses of (4+4)
(i) Sodium thiosulphate (ii) Zinc sulphate

5 (a) Explain the principle and procedure involved in the assay of (3+3)
(i) Hydrogen peroxide (ii) Zinc oxide
(b) Mention the method of preparation, properties and applications of (4+4)
(i) Barium sulphate (ii) Yellow mercuric oxide

OR

(c) List out one official inorganic compound used as. (3x3)
(i) Antirheumatic agent (ii) Antithyroid agent (iii) Sedative – hypnotic
Describe the preparation and properties of each compound.
(d) Explain the role of fluorides as anticaries agents with examples. (5)

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