

Pharmacy, Hyderabad

Code No. 8033 / M

**FACULTY OF PHARMACY****B. Pharmacy I - Year (Main) Examination, June 2015****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 applications with examples. 8  
b) Give two characteristic tests for potassium and sulphate ions with reactions. 6  
**OR**  
c) What is an impurity? Explain how the impurities get incorporated in the official pharmaceutical substances. 1+7  
d) Explain the principle and procedure involved in the limit test for i) Iron ii) lead 3+3
- 2 a) What are sodium replenishes? Write the method of preparation, and assay of sodium chloride. 1+4  
b) Write a note on activated charcoal. 3  
c) Mention the method of preparation and uses of i) Magnesium sulphate ii) Calcium gluconate 3+3  
**OR**  
d) What are antacids? Write the method of preparation, and tests for purity of i) Aluminium hydroxide gel ii) Sodium bicarbonate 1+8  
e) Write a note on Hemodialysis fluids. 5
- 3 a) List out the official iron compounds used as Haematinics. Write the method of preparation, and assay of Ferrous fumarate. 2+4  
b) Write a note on i) Silica gel ii) Purified water 4+4  
**OR**  
c) Mention the method of preparation and uses of i) Sodium bisulphate ii) Aluminium sulphate iii) Zinc chloride 3 x 3  
d) Write a note on suspending agents. 5
- 4 a) Write the method of preparation and uses of i) sodium thiosulphate ii) Sodium thiosulphate injection 6  
b) Mention the method of preparation, assay and uses of i) Ammonium chloride ii) Potassium antimony tartarate 4+4  
**OR**  
c) Give the method of preparation, properties and tests for purity for the following compounds. 8  
i) zinc sulphate ii) potassium iodide  
d) Write a note on Inhalants. 6
- 5 a) Explain the principle and procedure involved in the assay of i) Boric acid ii) Potassium permanganate 3+3  
b) Mention the composition, properties and uses of i) Plaster of Paris ii) Activated Dimethicone 4+4  
**OR**  
c) Mention the method of preparation, properties and uses of i) Barium sulphate ii) Zinc oxide iii) Sodium fluoride 3 x 3  
d) Write a note on Dentifrices. 5

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