

R17

Code No: 241AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy I Year I Semester Examinations, June/July - 2018

PHARMACEUTICAL INORGANIC CHEMISTRY-I

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) Write the principle involved in the limit test for Arsenic. [2]
- b) Write the principle and procedure involved in the limit test for Iron. [3]
- c) Write a note on the electrolytes used for replacement therapy. [2]
- d) Define buffer and buffer capacity. [3]
- e) Define Acidifiers? Discuss the principle of Ammonium chloride. [2]
- f) Define antacid. Write the identification tests and uses of Magnesium hydroxide. [3]
- g) Write the principle involved in assay of Sodium potassium tartarate. [2]
- h) Explain the physiological role of Iron and Copper. [3]
- i) Define Radio opaque contrast medium. [2]
- j) Write a short note on the Radio Pharmaceuticals. [3]

PART-B

(50 Marks)

- 2.a) Explain the principle and procedure involved in the limit test for Chlorides. [5+5]
 - b) Explain about sources and types of impurities. [5+5]
- OR**
- 3.a) Explain the principle and procedure involved in the limit test for Sulphates. [5+5]
 - b) Explain the principle and procedure involved in the limit test for Heavy metals. [5+5]
- 4.a) Explain the different methods for adjustment of isotonicity of buffers. [5+5]
 - b) Write a detailed note on oral rehydration salt (ORS). [5+5]
- OR**
- 5.a) Write a note on dental products. Describe the role of fluorides as anticaries agent. [5+5]
 - b) Write a note on desensitizing agents. [5+5]
- 6.a) Describe the method of preparation, assay and uses of Aluminium hydroxide gel. [5+5]
 - b) Define cathartics? Explain the preparation method and uses of Magnesium sulphate. [5+5]
- OR**
- 7.a) Describe the preparation method, assay and uses of Boric acid and Hydrogen peroxide. [5+5]
 - b) Write a note on preparation methods of Iodine. [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]

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