Question Paper

Exam Date & Time: 16-May-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Instructions: Answer ALL questions.

Pharmaceutical Inorganic Chemistry [PCH 1.5T-S1]

Marks: 70 Duration: 180 mins. Section A Answer all the questions. Long Answer Questions (3 x 10 marks = 30 marks) 1) What are errors? Explain systematic error. Explain its methods of minimization. (5)a) b) Explain the principle of limit test for iron and arsenic. (5)2) Explain Volhard's method for the estimation of sodium chloride (5)a) Explain iodometric titration with suitable example (5)b) 3) Explain with reactions, the principle involved in the synthesis and assay of ammonium chloride. (5)Give its uses. a) b) How does a) oxidation b) halogenation c) Astringent action leads to antimicrobial action? Explain (5)Section B Answer all the questions. Short Answer Questions (6 x 5 marks = 30 marks) 4) What are the complications of antacid therapy? Explain. Give the physical property and use of (5)ammonium carbonate Explain the physiological role of Zinc. Give the physical properties and preparation of zinc sulphate 5) (5)Explain with reactions, the assay of sodium lactate. Explain the role of calcium carbonate in dental 6) (5)products. What are the applications of radiopharmaceuticals? 3 Marks (5)7) Give the uses of a) Zinc stearate b) sodium CMC 2 Marks What is gravimetric analysis? List its application and enlist the number of important techniques to 8) (5)get accurate, quantitative estimations in gravimetric analysis. 9) What are indicators? Classify with example redox indicators and non-aqueous titration indicators. (5)Section C Answer all the questions. Give Reasons for the Following (5 x 2 marks = 10 marks) 10) Why starch is not used as an indicator in the assay of potassium iodide? (2)

Why is secretion of hydrochloric acid in the stomach essential?

11)

(2)

	End	
14)	Chloride limit test for sodium bicarbonate cannot be performed by normal method.	(2)
13)	Acetic acid and acetic anhydride are used in the preparation of standard acetous perchloric acid solution.	(2)
12)	Mordant black II suitable to use at above pH 10 and cannot be used in presence of oxidising ion.	(2)