

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER • 2015

Subject Code: 2210002**Date: 27-05-2015****Subject Name: Pharmaceutical Chemistry-I (Inorganic Chemistry)****Time: 02:30 pm - 05:30 pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a) What is limit test? Write factors of it. Explain principle of limit test for sulphate and iron.	06
	(b) Explain terms: Pharmacopoeia, Assay, Water for injection.	05
	(c) Discuss the role of buffer in pharmacy.	05
Q.2	(a) What is protective and adsorbent? Give preparation & properties of activated charcoal.	06
	(b) Discuss physiological acid-base balance.	05
	(c) Discuss biological importance of sodium.	05
Q.3	(a) Define haematinics. Give preparation, properties and use of ferrous sulphate.	06
	(b) Write note on electrolyte replenishors.	05
	(c) Define following terms with examples: Laxative, Acidifying agent, Keratolytics, Anti-caries agent, Anti-TB agents.	05
Q.4	(a) Write assay principle and chemical reaction: Boric acid, Zinc sulphate, Potassium permanganate.	06
	(b) Write a note on respiratory stimulants.	05
	(c) Write the storage condition of carbon dioxide, hydrochloric acid and potassium bromide.	05
Q.5	(a) Write a note on antidotes.	06
	(b) What is suspending agents? Give characteristics, classification and use of it.	05
	(c) Define anti-oxidant agents. Explain preparation and properties of sodium thiosulphate.	05
Q. 6	(a) Write preparation and use of Aluminium hydroxide gel, sodium fluoride, Copper sulphate.	06
	(b) Explain: Diluents, Chelating agents.	05
	(c) Discuss the source of impurities.	05
Q.7	(a) Discuss clinical application of radiopharmaceuticals.	06
	(b) What is radioactivity? Explain any one measurement method of radioactivity.	05
	(c) What is astringent? Give properties and use of $AlCl_3$.	05