## **GUJARAT TECHNOLOGICAL UNIVERSITY** B. Pharm. – SEMESTER – I • EXAMINATION – WINTER 2013

<b>B. Pharm. – SEMESTER – I • EXAMINATION – WINTER 2015</b>			
Subject Code: 2210002Date: 01-01-2014Subject Name: Pharmaceutical Chemistry-I (Inorganic Chemistry)Time: 02.30 pm - 05.30 pmInstructions:			
1.	Attempt	t any five questions.	
2.	Make su	itable assumptions wherever necessary.	
3.	Figures	to the right indicate full marks.	
Q.1	(a)	Write a detail note on sources of impurities in pharmaceutical chemicals.	06
	(b)	What is meant by limit test? Write a note on limit test for Sulphate.	05
	(c)	Write a note on complexing agent used in therapy.	05
Q.2	(a)	Describe the following terms.	06
		1. Cathartics	
		2. Protectives	
		3. Astringent	
	(b)	Define antimicrobial agents and classify them with examples.	05
	(c)	Write a note on Geiger Muller Counters.	05
Q.3	(a)	Define major intra and extra cellular electrolytes. Give physiological	06
		function of sodium and disease associated with it.	- <b>-</b>
	(b)	Write a note on physiological acid base balance.	05
	(c)	Answer the followings:	05
		1. Justify the use of Citric acid in the limit test of iron.	
		2. Why do pharmacopoeias not prescribe limit test for chloride, sulphate and iron?	
Q.4	(a)	Define essential and trace elements and give the biological role of iron.	06
<b>C</b>	(b)	Give applications of radioisotopes.	05
	(c)	Give preparation and uses of following compound.	05
	. ,	1. Sodium chloride and dextrose injection	
		2. Potassium iodide	
Q.5	(a)	Define antioxidants and give criteria for a substance to act as an	06
		antioxidant.	
	(b)	Explain the compound acting by protein precipitation and describe any	05
		one in detail.	
	(c)	Write a note on respiratory stimulants.	05
Q. 6	(a)	Write a detail note on dental products.	06
	(b)	Define Antidotes and describe role of Kaolin.	05
	(c)	Write a brief note on Sedatives with example.	05
<b>Q.7</b>	(a)	Give the synonym of the following compounds.	06
		1. Ringer's injection	
		2. Gypsum	
		3. Epsom Salt	
		4. Bleaching powder	
		5. Lugol's solution	
	(1)	6. Precipitated chalk	07
	(b)	Describe electrolyte combination therapy with suitable examples.	05 05
	(c)	Give synonym, preparation and uses of H <sub>3</sub> PO <sub>2</sub> .	05