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

	•	et Code: 2210002 Date: 13-05-2013	
	Subjec	et Name: Pharm Chemistry-I (Inorganic chemistry)	
	Time:	02.30 pm - 05.30 pm Total Marks: 80	
	Instruct	tions:	
	2	<ol> <li>Attempt any five questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>	
Q.1	(a)	Discuss the source of impurities in pharmaceutical substances.	06
	(b)	Define Limit test. Explain the limit test of arsenic.	05
	(c)	Write a note on chelating agents used in therapy.	05
Q.2	(a)	Define buffers. Give mechanism of buffer action and importance of buffer solution in pharmacy.	06
	(b)	Explain Bronsted acid base theory. What are conjugate pairs of acid and base?	05
	(c)	Give methods of preparation, properties and uses of hydrochloric acid.	05
Q.3	(a)	Classify gastro-intestinal agents with examples.	06
	(b)	Define antacids and explains one of the aluminum compounds as antacids.	05
	(c)	Define antioxidants. List the compounds of sodium as antioxidants and give method of preparation of any one.	05
Q.4	(a)	Define following terminology:- (Any three)  I) Antiseptic II) Filter-Aid III) Adsorbent IV) Presevative	06
	(b)	What are topical agents? Classify them with suitable examples.	05
	(c)	Enlist the official preparations of iodine and give mechanism of action.	05
Q.5	(a)	What are anticaries agents? Discuss the role of fluoride.	06
	(b)	Give the storage condition of following gases.	05
		I) Carbon dioxide II) Nitrous oxide III) Oxygen	
	(c)	Define expectorants. Discuss the role of ammonium compounds as respiratory stimulants.	05
Q. 6	(a)	Enlist major intra and extra cellular electrolytes. Discuss the physiological importance of sodium ion.	06
	(b)	Write a short note on ORS.	05
	(c)	What is haematinics? Give preparation, properties and uses of ferrous gluconate.	05
Q. 7	(a)	Write a note on geiger muller counter.	06
	(b)	Define antidotes. Discuss mechanism of action of antidote poisoning.	05
	(c)	Discuss biological importance of calcium ions and their deficiency symptoms.	05

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