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

D. Thank. Selvester I Examination whiter 2013					
Subject Code: 2210002Date: 31-12-2015Subject Name: Pharmaceutical Chemistry – I (In organic Chemistry)Time: 10:30 am - 01:30 pmInstructions:					
 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 					
Q.1	(a)	Comment on the following sentences. 1. pH plays important role in limit test of iron. 2. Dilute acetic acid is used in the limit test of lead.	06		
	(b)	3. Granulated zinc is used in the limit test of arsenic. What do mean by hard water. Explain types of hardness along with methods for removal.	05		
	(c)	Write a note on radioactive rays.	05		
Q.2	(a)	Give principle of assay of 1. Ammonia	06		
	(b)	2. Potassium permanganate Define buffer capacity. Explain mechanism of buffer action along	05		
	(c)	with suitable example. What is meant by physiological buffers? Describe the mechanism of maintaining pH of blood.	05		
Q.3	(a)	Give difference between1. Assay and limit test2. Cathartic and purgative3. Emetic and expectorant	06		
	(b)	Give preparations and uses of any two orally used antacids giving	05		
	(C)	examples of their marketed preparations. Write informative note on "Anti oxidant". Explain preparation, properties and uses of sodium thiosulphate.	05		
Q.4	(a)	Write a note on 1. Cyanide poisoning.	06		
-	(b) (c)	 Complexing and chelating agents. Write the preparation, uses and assay principle of the Lunar caustic. Discuss the biological significance of calcium. 	05 05		
Q.5	(a)	Comment on the following sentences: 1. Magnesium sulphate is used in the assay of calcium lactate.	06		
	(b)	2. Povidone – iodine is better than tincture iodine. Write Preparation and uses of following	05		
		1. Calamine 2. Selenium sulfide Write about various haematinic preparations.	05		
	(c)	wille about various nacinatine preparations.			

Q. 6	(a)	Explain importance of followings with examples 1.ORS	06
		2. Preservatives	
		3. Buffers	
	(b)	Define following terms with examples.	05
		1. Astringent 2. Bactericidal 3. Disinfectant	
		4. Protectives 5. Sclerosing agent	
•	(c)	Write the storage condition, uses and assay principle of Hydrogen	05
		peroxide.	
Q.7	(a)	Give method preparation and category of following compounds.	06
	()	1. Epsom salt	
		2. Graham's salt	
		3. Rochelle salt	
	(b)	Write a note on anticaries agents.	05
	(C)	Enumerate different methods of measurement of radioactivity and	05
		explain in detail any two.	
