Seat No		Enrolment No			
	GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM- SEM-I-EXAMINATION – JUNE 2012				
Subje	ct cod	e: 210003 Date: 26/0	6/2012		
•		ne: Pharm Chemistry-I			
Fime: 10:30 am – 01:30 pm Total N					
	uction				
		pt any five questions.			
		suitable assumptions wherever necessary. s to the right indicate full marks.			
Q.1	(a)	Define the term 'limit test. Discuss limit lest for Arsenic in detail.	06		
	(b)	Discuss various sources of impurities in pharmaceutical substances.	05		
	(c)	Define the term antidote. Which antidotes are used for cyanide poisoning? Explain their mechanism of action.	05		
Q.2	(a)	What is G.M. Counter? Give a brief account on therapeutic and diagnostic applications of inorganic radiopharmaceuticals.	06 05		
	(b)	What is the importance of trace elements in our body? Discuss any one iron containing compound as haematinic.			
	(c)	Give synonym of followings.	05		
		(i) MgSO ₄ (vi) CaCO ₃			
		(ii) Ringer's solution (vii) Weak iodine solution (iii) Potassium sodium tartrate (viii) Sodium sulphate			
		(iv) Caustic soda (ix) Sodium bicarbonate			
		(v) Boric acid (x) Laughing gas			
Q.3	(a)	Discuss the physiological role of oxygen and describe its method of	06		
	(h)	preparation, properties, storage conditions and uses.	05		
	(b)	Write a note on 'handling and storage of radioactive materials'. Discuss complexing agents used in therapy.	05 05		
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Q.4	(a)	Define antacids. Describe Al(OH) ₃ gel as an antacid.	06		
	(b)	Classify antimicrobial agents. Give a brief account of H_2O_2 solution.	05		
	(c)	Justify the importance of: (i) Citric acid in limit test for iron.	05		
		(ii) Dilute HNO ₃ in limit test for chloride.	03		
		(iii) K_2SO_4 in limit test for sulphate.			
		(iv) Hydrogen sulphide in limit test for heavy metal.			
		(v) Ammonia in limit test for iron.			
Q.5	(a)	Classify dental products with suitable examples. Discuss the role of	06		
		fluoride in preventing tooth carries. Give a brief account of zinc			
	(b)	chloride as a dental product. Give a brief account for any one saline cathartic.	05		
	(c)	Write a brief note on expectorants and emetics.	05		
Q. 6	(a)	Give preparations and uses and storage condition of followings. (i) Calamine	06		
		(ii) Boric acid			
	(b)	Write a note on electrolyte used in replacement therapy.	05		

Discuss physiological acid-base balance and give a note on sodium

(c)

05

Q.7	(a)	Give method of preparation and uses for the following compounds.	06
	()	(i) Bismuth subcarbonate	
		(ii) Ammonium carbonate	
		(iii) Precipitated chalk	
	(b)	Define the following terms and give two examples of each.	05
		(i) Sclerosing agent	
		(ii) Filter-aids	
		(iii) Adsorbants	
		(iv) Suspending agents	
		(v) Preservatives.	
	(c)	Write a note on- combinations of antacid preparations. ***********************************	05