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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM. - SEMESTER-I • EXAMINATION -SUMMER 2017

Subject Code: 210003 Date: 01/06/2017

Subject Name: Pharmaceutical Chemistry-I

Time: 02:30 PM to 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)	Explain the following terms:	06
		1. Hyperkalemia 2. Preservatives 3. Sedative	
	4 \	4. Buffers 5. Astringents 6. Protectives	0=
	(b)	Define limit test. Write a detailed note on limit test for iron.	05
	(c)	Define impurities. Describe the sources of impurities.	05
Q.2	(a)	Give the synonyms and uses of following	06
		1. Common salt 2. Chlorinated lime 3. Baking soda	
		4. Rochelle salt 5. Slaked lime 6. Green vitriol	
	(b)	Write a note on Antioxidants	05
	(c)	Clarify: Water for injection, sterile water for injection and purified water I.P.	05
Q.3	(a)	Distinguish between	06
		1. Poison and Antidote	
		2. Hypochlorhydria and Hyperchlorhydria	
	(1.)	3. Hyponatremia and Hypernatremia	0.5
	(b)	Discuss the factors affecting selection of Pharmaceutical buffers and	05
	(c)	name any two physiological buffers and two analytical buffers. White down application of Radiopharmaceuticals.	05
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Q.4	(a)	Comment on the following:	06
		1) Nitrobenzene is used in assay of ammonium chloride.	
		2) Magnesium sulphate is used in the assay of calcium lactate.3) Polyhydroxy alcohol is used in assay of boric acid.	
	(b)	Define Pharmacopeia. Give a brief note on Indian Pharmacopeia	05
	(c)	Write a note on chelating agents used in therapy.	05
0.5			
Q.5	(a) (b)	Give an account on method of preparation and uses of hydrochloric acid. What are antacids? Outline the ideal requirements of an antacid.	06 05
	(c)	Write a short note on dental products.	05
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Q. 6	(a)	Give method of preparation and category of following compounds.	06
		 Potassium chloride Silver nitrate 	
		3. Sodium carbonate	
	(b)	Write a note on oral rehydration salt.	05
	(c)	Discuss the biological importance of calcium.	05
0.5			
Q.7	(a) (b)	Define haematinic. Write about various haematinic preparations. Discuss at length on dried aluminium hydroxide gel.	06 05
	(b) (c)	How the radioactivity measured? Write a note on GM counter.	05
	(\mathbf{c})	110 w the radioactivity measured: write a flote off Oth Counter.	UJ