	Seat No.: Enrolment No	
	GUJARAT TECHNOLOGICAL UNIVERSITY	
	<b>B.</b> Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014	
	Subject Code: 210003 Date: 30-12-2014	
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	Subject Name: Pharmaceutical Chemistry – I	
	Time: 10:30 am - 01:30 pm Total Marks: 80	
	Instructions:	
	<ol> <li>Attempt any five questions.</li> <li>Make suitable assumptions wherever necessary.</li> </ol>	
	3. Figures to the right indicate full marks.	
Q.1	(a) Explain the following terms	06
	1. Bacteriostatic	
	2. Pharmacopoeia	
	3. Indicator	
	4. Buffer capacity	
	5. Suspending agent	
	6. Alkalosis	~ -
	(b) Define and classify topical agents with suitable examples. Give preparation,	05
	assay and uses of ZnO.	05
	(c) Explain the term 'limit test' and write down the limit test for chloride and sulphate.	05
Q.2	(a) Enumerate the various acid and base theories. Explain any two with its limitation	06
Q.2	in detail.	00
	(b) Give an informative note on dental products.	05
	(c) Define antidotes. Enumerate various types of antidotes with suitable examples.	05
	Give preparation and uses of any two.	0C
Q.3	(a) What do you understand by antibacterial agents? Explain its mechanism.	06
	Give the properties, assay principle and uses of AgNO <sub>3</sub> .	
	(b) Write a short note on Limit test for Arsenic.	05
	(c) Write a brief note on Radiopharmaceuticals.	05
Q.4	(a) Write a note on electrolyte replenishers and antioxidants.	06
	(b) Define the following terms with suitable example	05
	1. Cathartics	
	2. Preservatives	
	3. Sedative	
	4. Deliquesant	
	<ul><li>5. Expectorants</li><li>(c) Give the synonyms and uses of</li></ul>	05
	1. Boric acid	03
	2. Slaked lime	
	3. Baking soda	
	4. Chlorinated lime	
	5. Rochelle Salt	
Q.5	(a) Write the assay principle and uses of followings	06
	a. Phosphoric acid	
	b. Ammonium chloride	
	c. Hydrochloric acid	
	(b) Classify followings with suitable examples	05
	a. Antioxidants	
	h Antimicrobial agents	

b. Antimicrobial agents(c) Write about the source of impurities.

05

(a) Classify GIT agents with examples.	06
(b) Discuss in detail Oral Rehydration Salt.	05
(c) Define buffer. Write about the buffer action.	05
(a) Write down the preparation, assay principle, uses and storage condition of Potassium Permanganate and $H_2O_2$ .	06
(b) Give a note on biological significance of calcium.	05
(c)Give a brief note on chelating agents used in therapy.	05
	<ul> <li>(b) Discuss in detail Oral Rehydration Salt.</li> <li>(c) Define buffer. Write about the buffer action.</li> <li>(a) Write down the preparation, assay principle, uses and storage condition of Potassium Permanganate and H<sub>2</sub>O<sub>2</sub>.</li> <li>(b) Give a note on biological significance of calcium.</li> </ul>

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