Seat No.: ____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy - SEMESTER I • EXAMINATION – WINTER-2016

Subject Code: 2210002 **Date: 30/01/2017**

Subject Name: PHARMACEUTICAL CHEMISTRY-I (INORGANIC CHEMISTRY)

Time: 10.30 AM – 01.30 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)**	Define impurity. Write in detail different sources of impurities.	**06**
	(b)	Give brief introduction to pharmacopoeia.	**05**
	(c)	Write in detail about limit test of Arsenic.	**05**
Q.2	**(a)**	Define the terms with examples: i)Protective (ii) Astringent (iii) Dentifrices (iv) Anti-dote (v) Adsorbent (vi) Diluent	**06**
	(b)	Write a brief note on topical agents.	**05**
	(c)	Discuss biological significance of Calcium.	**05**
Q.3	**(a)**	What are acids and bases. Explain in detail different theories of acids and bases.	**06**
	(b)	Give Application of Radio activity in Pharmacy.	**05**
	(c)	Explain about measurement of radioactivity.	**05**
Q.4	**(a)**	Write in detail about types of water.	**06**
	(b)	Give storage condition of following compounds. i) Silver nitrate ii) Carbon dioxide iii) Nitrogen gas iv) Ammonia v)	**05**
	(c)	Write a note on Anesthetics and Sedatives.	**05**
Q.5	**(a)**	Differentiate between the following 1. Bactericidal Vs Bacteriostatic 2. Antiseptic Vs Disinfectants 3. Expectorants Vs Emetics	**06**
	(b)	Describe different antacids And write in detail about Magnesium compounds.	**05**
	(c)	Write a note on haematinics.	**05**
Q. 6	**(a)**	Assay principle of followings (1) Boric acid (2) Calcium Gluconate (3) Zinc oxide	**06**
	(b)	What are Buffers? Explain Buffer capacity. Derive Handerson hasselbalch equation for buffer action.	**05**
	(c)	Write briefly about various types of Cathartics.	**05**
Q.7	**(a)**	Explain about dental products in detail	**06**
	(b)	Explain Acidifying agents in detail.	**05**
	(c)	Write a note on Chelating agents in detail.	**05**

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