Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph SEM-I Examination- Jan.-2012

Subject code: 210003 **Date: 04/01/2012**

Subject Name: Pharm Chemistry-I

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)	Explain the terms: 1. Hypernatremia 2. Buffers 3. Suspending agents	**06**
	(b)	Write a note on antidotes	**05**
	(c)	Write the preparation of the 1. Baking soda 2. Copper sulphate 3. Ammonium chloride	**05**
Q.2	(a)	What do you mean by impurities? What are the sources of impurities in the pharmaceutical preparations	**06**
	(b)	Write a note on protectives	**05**
	(c)	What is the difference between limit test and assay? Explain the principle of limit test for sulphate	**05**
Q.3	(a)	Comments on the following 1. Citric acid is used in the limit test for iron 2. Glycerin is added in assay of boric acid 3. Magnesium sulphate is used in the assay of calcium lactate.	**06**
	(b)	Write down various clinical applications of radiopharmaceuticals.	**05**
	(c)	Enumerate the various methods for softening the hard water? Discuss any two methods.	**05**
Q.4	(a)	Explain the following terms 1. Preservative 2. Expectrorant 3. Deliquesant	**06**
	(b)	How the radioactivity measured? Write a note on Gieger Muller counter	**05**
	(c)	Write about various haematinic preparations	**05**
Q.5	(a)	Write a note on dentifrices	**06**
	(b)	What are pharmaceutical buffers? Write down the applications of pharmaceutical buffers.	**05**
	(c)	Write a note on oral rehydration salt.	**05**
Q. 6	(a)	Classify the various gastrointestinal agents with examples.	**06**
	(b)	Write the storage conditions for carbon dioxide, hydrochloric acid and potassium bromide	**05**
	(c)	Discuss the biological importance of calcium.	**05**
Q.7	(a)	Give the synonyms and uses of the following Rochelle salt 2. Common salt	**06**

3. Green vitriol 4. Chlorinated lime
5. Precipitated Chalk

(b) Write the assay principle and chemical reaction of following **05**
1. Zinc sulphate
2. Potassium permagenate
3. Borax

(c) Write a note on purified water and water for injection **05**

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