Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER 2013

Subject Code: 210003 **Date: 13-05-2013**

Subject Name: Pharmaceutical Chemistry – I

Time: 02.30 pm - 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)	Classify gastrointestinal agents. Write a note on milk of magnesia.	**06**
	(b)	Give a brief note on Indian Pharmacopeia	**05**
	(c)	What are pharmaceutical buffers? Discuss applications of pharmaceutical buffers.	**05**
Q.2	(a)	Write the assay principle of following compounds. 1. Hydrogen peroxide 2. Calcium gluconate 3. Borax	**06**
	(b)	Discuss physiological acid base balance.	**05**
	(c)	Discuss with suitable examples: Haematinics	**05**
Q.3	(a)	Write a note on Inhalants and respiratory stimulants.	**06**
	(b)	Give brief account on Oral Rehydration Salt.	**05**
	(c)	Enlist various methods for softening the hard water? Discuss any one method in detail.	**05**
Q.4	(a)	Classify: Dental products. Discuss Sodium fluoride as dental product.	**06**
	(b)	Write composition of various iodine preparations.	**05**
	(c)	Explain the followings: 1. Pharmaceutical aids 2. Expectorants 3.Emetics 4. Laxatives 5. Hygroscopic compounds	**05**
Q.5	(a)	Classify antimicrobial agents with examples and discuss their mechanisms of action.	**06**
	(b)	Write a note on chelating agents used in therapy.	**05**
	(c)	Discuss with reactions: limit test for Iron.	**05**
Q. 6	(a)	Explain and classify: Antidotes. Give preparation and uses of sodium nitrite.	**06**
	(b)	Discuss the sources of impurities in pharmaceuticals.	**05**
	(c)	What are antacids? Outline the ideal requirements of an antacid.	**05**
Q.7	(a)	Write a note on Anti oxidant. Explain preparation and uses of sodium thiosulphate.	**06**
	(b)	Discuss briefly applications of radiopharmaceuticals	**05**
	(c)	Explain: Limit Test. Write a note on limit test for arsenic as per IP	**05**

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