Seat No.:	Ennalment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – I (OLD Syllabus) • EXAMINATION – SUMMER • 2015

Subject Code: 210003 Date: 27-05-2015 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 the sources of impurities. Explain instability of the product	06
	(b)	in pharmaceuticals Define pharmacopoeia. Explain official monograph for	05
		pharmaceutical substance.	
0.3	(c)	Writes a detailed note on limit test for iron and Gutzeit apparatus.	05
Q.2	(a)	Explain Bronsted-Lowery acid-base theory. Explain water for injection, sterile water for injection and purified water I.P.	06
	(b)	Classify inorganic compounds acting as gastrointestinal agents giving examples. Give an account on cathartics.	05
	(c)	Explains ideal antacid. Give preparations, properties, and uses of aluminum Hydrochloride Gel.	05
Q.3	(a)	What are intra and extra cellular electrolytes? What is meant by oral rehydration therapy?	06
	(b)	Enumerate official compounds of Iron. Give preparation and uses of ferrous gluconate.	05
	(c)	Give an account on biochemical importance of iron.	05
Q.4 ((a)	Define and classify topical agents with suitable examples. Give preparation, properties, uses and assay principle of Zinc oxide.	06
	(b)	Write short notes on: Respiratory stimulants.	05
	(c)	Write the storage condition.	05
		i) Oxygen ii) Phosphoric acid iii) Silver Nitrate	
Q.5	(a)	Write a note on chelating agents used in therapy.	06
	(b)	Write a note on Dental Products.	05
	(c)	Write a note on dentifrices.	05
Q. 6	(a)	Define and explain pharmaceutical aids & antioxidants. Explain preparation, properties and uses of sodium thiosulphate.	06
	(b)	Define and explain antidote used in pharmacy. Enumerate types of antidote with example. Give preparation, properties and uses of any one.	05
	(c)	Explain the following terms	05
		i) Preservative ii) Expectorant iii) Deliquesantiv) Adsorbents v) Excipients	
Q.7	(a)	What are Radiopharmaceuticals? Give uses of Iron [59Fe], Cynocobalamine [57Co].	06
	(b)	Write a note on GM counters. Give preparation, properties and uses	05
	(-)	of barium sulphate.	••
	(c)	Write down various clinical applications of radiopharmaceuticals.	05
