

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 1 EXAMINATION – SUMMER -2019

Subject Code: 2210002

Date: 30-05-2019

Subject Name: Pharm Chem-I (Inorganic Chemistry)

Time: 10:30 AM TO 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) What are impurities? Give sources of impurities.	06
	(b) Write a note on limit test of Arsenic.	05
	(c) Write principle of limit test of chloride and sulphate.	05
Q.2	(a) What are antacids? Write preparation, properties and assay principle of Aluminum hydroxide gel.	06
	(b) Write short note on saline cathartics.	05
	(c) Write in brief mechanism of action of antimicrobial agents.	05
Q.3	(a) Explain in brief physiological acid-base balance.	06
	(b) Write a note on ORS.	05
	(c) Enlist major intra and extra cellular electrolytes. Discuss the important biological function of sodium ion and bicarbonate ion in the body.	05
Q.4	(a) Give biological effect of Radiation. Write G-M counter in detail.	06
	(b) Write a note on hazards of radiopharmaceuticals.	05
	(c) Write short note on Antidotes.	05
Q.5	(a) Give Assay principle of following compounds (i) Boric acid (ii) Hydrogen peroxide (iii) Calcium gluconate	06
	(b) Write a note on Dental products.	05
	(c) What are inhalants? Write storage condition of Oxygen and Carbon dioxide.	05
Q. 6	(a) Explain Lowry-Bronsted theory of acid and base. Write a note on buffers.	06
	(b) Write a note on chelating agents.	05
	(c) Explain with examples (i) Antioxidants (ii) Adsorbents.	05
Q.7	(a) Explain with examples: (i) Sclerosing agents (ii) Expectorants (iii) Emetics	06
	(b) Write synonym with structural formula of following (i) Chlorinated lime (ii) Precipitated Chalk (iii) Baking soda	05
	(c) Write short note on official compounds of Iron.	05
