

Seat No.: _____

Enrolment No. _____

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 **06**
(i) Boric acid (ii) Hydrogen peroxide (iii) Calcium gluconate
(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: **06**
(i) Sclerosing agents (ii) Expectorants (iii) Emetics
(b) Write synonym with structural formula of following **05**
(i) Chlorinated lime (ii) Precipitated Chalk (iii) Baking soda
(c) Write short note on official compounds of Iron. **05**
