

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – I- EXAMINATION –WINTER - 2018**Subject Code:210003****Date: 03/01/2019****Subject Name: Pharm Chemistry - I****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) Give the chemical formulae, preparation and uses of silver nitrate, zinc chloride and sodium bicarbonate. **06**
(b) Explain the Lowry-Bronsted acid base theory. **05**
(c) Give the biological importance of complexing and chelating agents. **05**
- Q.2** (a) Explain the principle involved in limit test for arsenic. Draw a neat and cleaned diagram of apparatus used in the limit test for arsenic. **06**
(b) Define antacid. Give the ideal requirements of antacid. **05**
(c) Define the following terms: (i) Limit test (ii) Buffer (iii) Laxatives (iv) Radioisotopes (v) Cathartics. **05**
- Q.3** (a) Define and classify Gastrointestinal agents with examples. Give the preparation of calcium carbonate. **06**
(b) Explain iodine and its preparation along with their composition. **05**
(c) Write a note on: (i) Astringents (ii) Expectorants **05**
- Q.4** (a) Enlist the various essential and trace elements. Write a short note on haematinics. **06**
(b) Write a short note on: (i) Sclerosing agents (ii) Cyanide poisoning. **05**
(c) Write a short note on anesthetics. Give the storage and labeling conditions for oxygen. **05**
- Q.5** (a) Classify topical agents with examples. Give the preparation and assay of potassium permanganate. **06**
(b) Write a short note on respiratory stimulants and emetics. **05**
(c) Write a short note of physiological buffers. **05**
- Q. 6** (a) Define anticaries agents. Explain the role of fluoride and phosphate in dental products. **06**
(b) What are the precautions to be taken while handling and storage of radio-pharmaceuticals? **05**
(c) Explain the mechanism of action of antimicrobial agents. **05**
- Q.7** (a) Define antidotes. Explain the mechanism of action of antidotes. **06**
(b) Define radio-pharmaceuticals. Draw a labeled diagram of GM counter. **05**
(c) Enlist the different units for the measurement of radioactivity. Give the clinical applications of radio-pharmaceuticals. **05**
