

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 1- EXAMINATION –WINTER - 2018**Subject Code: 2210002****Date: 03/01/2019****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) Define and explain the following terms (any six) **06**
(i) Assay, (ii) titration, (iii) pharmacopoeia, (iv) limit test, (v) expectorants, (vi) haematinics, (vii) isotopes
- (b) Enlist the sources of impurities and discuss any four in detailed. **05**
- (c) Write a detailed note of limit test for arsenic. **05**
- Q.2** (a) Differentiate the Lewis acid and base. Give merits and demerits of Lewis theory for acid and base. **06**
- (b) What is buffer? Describe physiological buffer system of body. **05**
- (c) Described method of preparation and uses of HCl. **05**
- Q.3** (a) Classify gastrointestinal agents with example. Write detailed note on NaHCO_3 . **06**
- (b) Write note of acidifying agent. **05**
- (c) Write short note on water for injection, sterile water for injection and purified water for injection. **05**
- Q.4** (a) Enlist major intra and extra cellular electroles. Write brief note on electrolyte replenishors. **06**
- (b) Write note on ORS. **05**
- (c) Explain preparation and uses of ammonium chloride and calcium lactate. **05**
- Q.5** (a) Give the storage condition of following gases. **06**
(i) CO_2 , (ii) O_2 , (iii) N_2O
- (b) Comment on the following statements. **05**
(i) KI is added in aqueous iodine solution.
(ii) Glycerin is added in the assay of boric acid.
- (c) Define and explain the antidotes in poisoning. **05**
- Q. 6** (a) What is dental product? Write a note on anticaries agents. **06**
- (b) Write note on complex forming agents. **05**
- (c) Give chemical formula of following. (any five) **05**
(i) Lugol's solution, (ii) Green vitriol, (iii) Muriatic acid, (iv) Rochelle salt, (v) Precipitated chalk, (vi) Milk of magnesia
- Q.7** (a) What is radiopharmaceutical? Give the application of radio isotopes in pharmaceutical field. **06**
- (b) Write construction and working of G.M. Counter. **05**
- (c) What is the meaning of antioxidants, preservatives, astringents, adsorbents and diluents? **05**