

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-1 • EXAMINATION – SUMMER -2018

Subject Code: 2210002**Date: 03/05/2018****Subject Name: Pharm Chem-I(Inorganic Chemistry)****Time: 02:30 PM TO 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 various gastrointestinal agents with examples. **06**
(b) What are Pharmaceutical buffers? Write down the applications of pharmaceutical buffers. **05**
(c) Write down the various clinical applications of radiopharmaceuticals. **05**
- Q.2** (a) Write the assay principle and chemical reaction of the followings: **06**
a) Zinc sulphate b) Potassium permanganate c) Boric acid
(b) Give the synonym and uses of the followings: **05**
a) Rochelle salt b) Blue vitriol c) Chlorinated lime
d) Precipitated chalk e) Muriatic acid
(c) Classify antimicrobial agents with example and discuss its mechanism of action. **05**
- Q.3** (a) Define Limit test. Write a detailed note on limit test of iron. **06**
(b) Discuss the biological significance of calcium. **05**
(c) Write a note on electrolytes used in replacement therapy. **05**
- Q.4** (a) Enlist various methods for softening the hard water? Discuss any one method in detail. **06**
(b) Write a short note on chelating agents used in therapy. **05**
(c) Discuss the sources of impurities. **05**
- Q.5** (a) Write a note on Antioxidant. Explain preparation and uses of sodium thiosulphate. **06**
(b) Give a brief account on Oral Rehydration salt. **05**
(c) Write composition of various Iodine preparations. **05**
- Q.6** (a) Write Preparation of the followings: **06**
a) Sodium thiosulphate b) sodium hydroxide c) Calcium gluconate
(b) Write a note on Geiger muller counter. **05**
(c) Define expectorants. Discuss the role of ammonium compounds as respiratory stimulants. **05**
- Q.7** (a) Write a short note on Dentifrices. **06**
(b) Write about various haematinic preparations. **05**
(c) Discuss Physiological acid base balance. **05**