

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph.- SEMESTER-I • EXAMINATION – SUMMER -2023

Subject Code: BP104TP**Date: 17/08/2023****Subject Name: Pharmaceutical Inorganic Chemistry****Time: 02:30PM TO 05:30PM****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 major intra and extra cellular electrolytes. Write a note on physiological acid base balance. **06**
- (b) Write a short note on Dentifrices. **05**
- (c) Give the synonym of Muriatic acid, Precipitated chalk, Rochelle salt, Milk of magnesia, Green vitriol. **05**
- Q.2** (a) Classify antimicrobial agents with example and discuss in detail on iodine and its preparations. **06**
- (b) Define and classify gastrointestinal agents with suitable examples. **05**
- (c) Give a brief account for any one saline cathartic. **05**
- Q.3** (a) What is radioactivity? Enlist the methods for measurement of radioactivity and explain any one of it. **06**
- (b) Write a note on 'handling and storage of radioactive materials'. **05**
- (c) Discuss clinical application of radiopharmaceuticals. **05**
- Q.4** (a) Define Limit test. Explain limit test of Arsenic. **06**
- (b) Explain sources of impurities in pharmaceutical substances. **05**
- (c) Give the principle with reaction of limit test of chloride and lead. **05**
- Q.5** (a) Define Antacid. Explain preparation and uses of Sodium Bicarbonate and aluminium hydroxide gel. **06**
- (b) Define Acidifiers. Give the Preparation, assay and uses of ammonium chloride. **05**
- (c) What is astringent? Give any two methods for preparation and uses of zinc sulphate. **05**
- Q.6** (a) Define expectorants. Discuss the role of ammonium compounds as respiratory stimulants **06**
- (b) Write about various haematinic preparations. **05**
- (c) Write a note on antidotes. **05**
- Q.7** (a) Enlist and Explain various acid-base theories. **06**
- (b) What are Pharmaceutical buffers? Write down the applications of pharmaceutical buffers. **05**
- (c) Discuss importance of calcium in biological preparations. **05**
