

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM – SEMESTER I EXAMINATION – WINTER -2025**

**Subject Code:BP104TP****Date: 27/02/2026****Subject Name: Pharmaceutical Inorganic Chemistry****Time: 10:30am to 01:30pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

<b>Q.1</b>	<b>(a)</b> Explain in detail about radioactivity.	<b>06</b>
	<b>(b)</b> Write a note on Gastrointestinal agents.	<b>05</b>
	<b>(c)</b> Explain electrolyte combination therapy	<b>05</b>
<b>Q.2</b>	<b>(a)</b> What is expectorant and explain in detail about emetics	<b>06</b>
	<b>(b)</b> What are astringent? Give a detail account on Zinc sulphate.	<b>05</b>
	<b>(c)</b> Explain handling and storage of radiopharmaceuticals.	<b>05</b>
<b>Q.3</b>	<b>(a)</b> Write a note on Oral Rehydration Salt	<b>06</b>
	<b>(b)</b> Write modified limit test for Chloride and Sulphate.	<b>05</b>
	<b>(c)</b> Write a note on Poison and Antidote with Sodium thiosulphate.	<b>05</b>
<b>Q.4</b>	<b>(a)</b> Define acid & base. Explain Lowry Bronsted theory	<b>06</b>
	<b>(b)</b> Define antimicrobial agent and write assay of hydrogen peroxide	<b>05</b>
	<b>(c)</b> Explain in detail about properties of $\alpha$ , $\beta$ & $\gamma$ radiations in brief.	<b>05</b>
<b>Q.5</b>	<b>(a)</b> Define impurities. Explain different types & sources of impurities.	<b>06</b>
	<b>(b)</b> Explain the role of fluoride in the treatment of dental caries.	<b>05</b>
	<b>(c)</b> Discuss biological significance of calcium.	<b>05</b>
<b>Q. 6</b>	<b>(a)</b> Explain in detail about pharmacopoeia.	<b>06</b>
	<b>(b)</b> Write a note on Haematinics.	<b>05</b>
	<b>(c)</b> Explain anticaries agents.	<b>05</b>
<b>Q.7</b>	<b>(a)</b> Explain the principle and procedure involved in the limit test of arsenic with a neat Labelled diagram of Gutzeit's apparatus.	<b>06</b>
	<b>(b)</b> What do you mean by the term monograph? What are the contents of the monograph in Detail?	<b>05</b>
	<b>(c)</b> What is the importance of buffer in pharmacy?	<b>05</b>

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