

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM- SEMESTER-1- EXAMINATION – WINTER -2023**

**Subject Code: BP104TP****Date:24/01/2024****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.

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| <b>Q.1</b>  | (a) Define Limit test. Explain limit test of Iron.   | <b>06</b> |
|             | (b) Explain sources of impurities in pharmaceutical substances.  | <b>05</b> |
|             | (c) Give the principle with reaction of limit test of chloride and lead.                                   | <b>05</b> |
| <b>Q.2</b>  | (a) What are Pharmaceutical buffers? Write down the applications of pharmaceutical buffers.                | <b>06</b> |
|             | (b) Write a brief note on ORS.   | <b>05</b> |
|             | (c) Discuss importance of calcium in biological preparations.  | <b>05</b> |
| <b>Q.3</b>  | (a) Define expectorants. Discuss the role of potassium iodide as expectorants.                             | <b>06</b> |
|             | (b) Define Acidifiers. Give the Preparation, assay and uses of ammonium chloride.                          | <b>05</b> |
|             | (c) Discuss clinical application of radiopharmaceuticals.  | <b>05</b> |
| <b>Q.4</b>  | (a) What is radioactivity? Enlist the methods for measurement of radioactivity and explain any one of it.  | <b>06</b> |
|             | (b) Write about various haematinic preparations.   | <b>05</b> |
|             | (c) Write a note on antidotes.   | <b>05</b> |
| <b>Q.5</b>  | (a) Define Antacid. Explain preparation and uses of Sodium Bicarbonate and aluminium hydroxide gel.        | <b>06</b> |
|             | (b) Write a note on 'handling and storage of radioactive materials'.                                       | <b>05</b> |
|             | (c) Give a brief account for any one saline cathartic.   | <b>05</b> |
| <b>Q. 6</b> | (a) Classify antimicrobial agents with example and discuss in detail on iodine and its preparations.       | <b>06</b> |
|             | (b) Define and classify gastrointestinal agents with suitable examples.                                    | <b>05</b> |
|             | (c) What is astringent? Give any two methods for preparation and uses of zinc sulphate.                    | <b>05</b> |
| <b>Q.7</b>  | (a) Define major intra and extra cellular electrolytes. Write a note on physiological acid base balance.   | <b>06</b> |
|             | (b) Write a short note on Dentifrices.   | <b>05</b> |
|             | (c) Give the synonym of Muriatic acid, Precipitated chalk, Rochelle salt, Milk of magnesia, Green vitriol. | <b>05</b> |

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