

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm- SEMESTER- I – EXAMINATION – SUMMER -2022

Subject Code:BP104TP**Date: 09/09/2022****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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| Q.1 | (a) Define impurities. Explain different types & sources of impurities. | 06 |
| | (b) Short note on i) Oral Rehydration salt ii) Pharmaceutical application of radioactive substances. | 05 |
| | (c) What are astringent? Give a detail account on Zinc sulphate. | 05 |
| Q.2 | (a) Classify Gastrointestinal agents. Give ideal properties of antacid. | 06 |
| | (b) Explain in detail history of pharmacopoeia. | 05 |
| | (c) Write an essay & uses of ammonium chloride. | 05 |
| Q.3 | (a) Define acid & base. Explain Lowry Bronsted theory with its limitations. | 06 |
| | (b) Give a detail account on Sodium chloride & Calcium gluconate. | 05 |
| | (c) Describe in brief principle & procedure of limit test of Arsenic. | 05 |
| Q.4 | (a) What is buffer isotonic solution? Give importance of buffer in pharmaceutical. | 06 |
| | (b) Give a detail account on physiological acid base balance. | 05 |
| | (c) Describe in brief expectorant & emetics with example. | 05 |
| Q.5 | (a) Discuss the role of Activated Charcoal & assay of Sodium thiosulphate. | 06 |
| | (b) Explain in detail properties of α , β & γ radiations in brief. | 05 |
| | (c) How boric acid can be extracted from borax? | 05 |
| Q.6 | (a) What is the principle & procedure of limit test of chloride? | 06 |
| | (b) Describe in brief classification & mechanism of antimicrobials. | 05 |
| | (c) Write an essay on Ferrous sulphate with its uses. | 05 |
| Q.7 | (a) What are dentifrices? Discuss the role of fluoride in the treatment of dental caries. | 06 |
| | (b) Define radio activity, half-life, radio isotope, cathartics. | 05 |
| | (c) Describe in detail hard as well as soft acids & bases with examples. | 05 |
