

**GUJARAT TECHNOLOGICAL UNIVERSITY****B. Pharm. - SEMESTER– I• EXAMINATION – WINTER -2019****Subject Code: BP104TP****Date: 07/01/2020****Subject Name: Pharmaceutical Inorganic Chemistry****Time: 10:30 AM TO 01:30 PM****Total Marks: 80****Instructions:**

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

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| <b>Q.1</b>  | (a) Write note on following: a) Astringents. b) Haematinics.   | <b>06</b> |
|             | (b) Write a brief note on Oral Rehydration Salt.   | <b>05</b> |
|             | (c) Explain: Electrolytes. Describe electrolyte combination therapy.   | <b>05</b> |
| <b>Q.2</b>  | (a) Discuss anticaries agents and desensitising agent with examples as dental products.  | <b>06</b> |
|             | (b) What is Pharmacopoeia? Write a brief note on monograph.  | <b>05</b> |
|             | (c) Explain: Expectorants and Emetics.   | <b>05</b> |
| <b>Q.3</b>  | (a) Write principle, reaction and apparatus used in limit test for Arsenic.  | <b>06</b> |
|             | (b) What is impurity? Discuss sources of impurities.   | <b>05</b> |
|             | (c) Write limit test for Iron.   | <b>05</b> |
| <b>Q.4</b>  | (a) What is buffer? Give pharmaceutical applications of buffer.  | <b>06</b> |
|             | (b) Enlist various theories of acid base. Discuss any one with examples.   | <b>05</b> |
|             | (c) What is isotonic solution? Discuss methods used for measurement of tonicity and methods of adjusting tonicity.   | <b>05</b> |
| <b>Q.5</b>  | (a) Give synonym and uses of the following inorganic pharmaceuticals:<br>a) Precipitated chalk b) Baking soda c) Lugol's solution d) Rochelle salt<br>e) Green vitriol | <b>06</b> |
|             | (b) Discuss storage conditions, precautions and pharmaceutical application of radioactive substances.  | <b>05</b> |
|             | (c) What is radioactivity? Write a note on measurement of radioactivity.   | <b>05</b> |
| <b>Q. 6</b> | (a) Write assay principle and uses of: a) Sodium chloride b) Hydrogen peroxide.  | <b>06</b> |
|             | (b) Write types of antacids. Discuss combinations of antacids.   | <b>05</b> |
|             | (c) Classify antimicrobial agents. Write brief about Iodine and its preparations as antimicrobial agent.   | <b>05</b> |
| <b>Q.7</b>  | (a) Define antidotes. Write a note on antidotes in poisoning with examples   | <b>06</b> |
|             | (b) Write short note on Saline cathartics.   | <b>05</b> |
|             | (c) Give preparation, assay principle and use of ferrous sulphate.   | <b>05</b> |

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