

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 1 EXAMINATION – SUMMER -2019**

**Subject Code: BP104TP****Date: 07-06-2019****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) Discuss the source of Impurities.  | <b>06</b> |
|             | (b) Write down principle of Limit test of chloride and sulphate.   | <b>05</b> |
|             | (c) Draw the Gutzeit apparatus .   | <b>05</b> |
| <b>Q.2</b>  | (a) Explain various acid-base theories.  | <b>06</b> |
|             | (b) What is antacid? Write ideal properties of antacid.  | <b>05</b> |
|             | (c) Write short note on pharmacopoeia? Brief on Indian Pharmacopoeia.  | <b>05</b> |
| <b>Q.3</b>  | (a) Define limit test. Write a detailed note on limit test of Iron.  | <b>06</b> |
|             | (b) Write synonyms of following compounds  | <b>05</b> |
|             | 1) Graham salt 2) Rochellet salt 3) Green Vitriol  |           |
|             | 4) Chlorinated lime 5) Precipitated Chalk  |           |
|             | (c) Write short note on dental products.   | <b>05</b> |
| <b>Q.4</b>  | (a) What are major intracellular and extra cellular electrolytes? Discuss the biological significance of calcium and Sodium. | <b>06</b> |
|             | (b) Write a note on electrolyte combination therapy.   | <b>05</b> |
|             | (c) Write a short note on ORS.   | <b>05</b> |
| <b>Q.5</b>  | (a) Define following terms   | <b>06</b> |
|             | 1) Preservatives 2) Bactericidal 3) Adsorbent  |           |
|             | 4) Astringent 5) Anti –Oxidant 6) Protectives  |           |
|             | (b) Write short note on antidote.  | <b>05</b> |
|             | (c) What is haematinic? Write preparation and use of Ferrous Sulphate.   | <b>05</b> |
| <b>Q. 6</b> | (a) What is radio activity? Explain any one measurement method of radioactivity.   | <b>06</b> |
|             | (b) Write down clinical application of various radiopharmaceuticals.   | <b>05</b> |
|             | (c) Write assay of following compounds   | <b>05</b> |
|             | 1) Ammonium Chloride   |           |
|             | 2) Hydrogen peroxide   |           |
| <b>Q.7</b>  | (a) Give Difference of following. (any two)  | <b>06</b> |
|             | 1) Emetic v/s expectorant.   |           |
|             | 2) Hyponatremia v/s Hypernatremia.   |           |
|             | 3) Antiseptic v/s Disinfectant.  |           |
|             | (b) Write note on cyanide poisoning and its treatment.   | <b>05</b> |
|             | (c) Write note on Cathartics.  | <b>05</b> |

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