

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. - SEMESTER-1 • EXAMINATION – SUMMER-2018**

**Subject Code: 210003****Date: 03/05/2018****Subject Name: PHARM CHEMISTRY-I****Time: 02:30PM TO 05:30PM****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>  | (a) Classify gastrointestinal agents. Write a note on milk of magnesia.   | <b>06</b> |
|             | (b) Write a note on chelating agents used in therapy.   | <b>05</b> |
|             | (c) What are antacids? Outline the ideal requirements of an antacid.  | <b>05</b> |
| <b>Q.2</b>  | (a) Discuss the source of impurities in pharmaceutical substances.  | <b>06</b> |
|             | (b) Write a note on anti-oxidant. Explain preparation and uses of sodium thiosulphate.  | <b>05</b> |
|             | (c) Discuss physiological acid base balance.  | <b>05</b> |
| <b>Q.3</b>  | (a) What are anticaries agents? Discuss the role of fluoride.   | <b>06</b> |
|             | (b) Define antidote. Give properties and preparation of sodium nitrite.   | <b>05</b> |
|             | (c) Write in detail about different types of water.   | <b>05</b> |
| <b>Q.4</b>  | (a) Write a note on geiger muller counter.  | <b>06</b> |
|             | (b) Give principle of limit test of iron and lead.  | <b>05</b> |
|             | (c) Write a short note on Respiratory stimulants and Expectorants.  | <b>05</b> |
| <b>Q.5</b>  | (a) Define and classify topical agents with suitable examples. Give preparation, properties, uses and assay principle of Zinc oxide.      | <b>06</b> |
|             | (b) Give a brief account on Oral Rehydration salt.  | <b>05</b> |
|             | (c) Write a note on Indian Pharmacopeia.  | <b>05</b> |
| <b>Q. 6</b> | (a) What do you mean by antibacterial agents? Explain its mechanism. Give the properties, assay principle and uses of AgNO <sub>3</sub> . | <b>06</b> |
|             | (b) What is buffer? Define about the buffer action.   | <b>05</b> |
|             | (c) Write a note on biological significance of calcium.   | <b>05</b> |
| <b>Q.7</b>  | (a) Write the preparation and uses of Aluminum hydroxide gel, sodium fluoride, and copper sulphate.                                       | <b>06</b> |
|             | (b) Write the storage conditions for carbon dioxide, hydrochloric acid and potassium bromide.   | <b>05</b> |
|             | (c) Write composition of various iodine preparations.   | <b>05</b> |

\*\*\*\*\*