

Seat No.: _____

Enrolment No. _____

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.

- Q.1** (a) Classify gastrointestinal agents. Write a note on milk of magnesia. 06
(b) Write a note on chelating agents used in therapy. 05
(c) What are antacids? Outline the ideal requirements of an antacid. 05
- Q.2** (a) Discuss the source of impurities in pharmaceutical substances. 06
(b) Write a note on anti-oxidant. Explain preparation and uses of sodium thiosulphate. 05
(c) Discuss physiological acid base balance. 05
- Q.3** (a) What are anticaries agents? Discuss the role of fluoride. 06
(b) Define antidote. Give properties and preparation of sodium nitrite. 05
(c) Write in detail about different types of water. 05
- Q.4** (a) Write a note on geiger muller counter. 06
(b) Give principle of limit test of iron and lead. 05
(c) Write a short note on Respiratory stimulants and Expectorants. 05
- Q.5** (a) Define and classify topical agents with suitable examples. Give preparation, properties, uses and assay principle of Zinc oxide. 06
(b) Give a brief account on Oral Rehydration salt. 05
(c) Write a note on Indian Pharmacopeia. 05
- Q. 6** (a) What do you mean by antibacterial agents? Explain its mechanism. Give the properties, assay principle and uses of AgNO₃. 06
(b) What is buffer? Define about the buffer action. 05
(c) Write a note on biological significance of calcium. 05
- Q.7** (a) Write the preparation and uses of Aluminum hydroxide gel, sodium fluoride, and copper sulphate. 06
(b) Write the storage conditions for carbon dioxide, hydrochloric acid and potassium bromide. 05
(c) Write composition of various iodine preparations. 05
