

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.

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|-------------|---|-----------|
| 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 AgNO ₃ . | 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 |
