

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

Subject Code: 210003

Date: 30-05-2019

Subject Name: Pharm Chemistry - I

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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|-------------|--|-----------|
| Q.1 | (a) Discuss importance of limit test in Pharmacy. Explain the principle involved in the limit test of arsenic. | 06 |
| | (b) Define and classify topical agents with suitable examples. Give preparation, Assay and uses of ZnO. | 05 |
| | (c) Write in detail about different type of waters. | 05 |
| Q.2 | (a) Give an account on biochemical importance of calcium. | 06 |
| | (b) Write a note on 'handling and storage of radioactive materials. | 05 |
| | (c) Discuss physiological acid base balance. | 05 |
| Q.3 | (a) Define antacids. Describe Al (OH) ₃ gel as an antacid. | 06 |
| | (b) Give a brief account for any one saline cathartic. | 05 |
| | (c) Give brief account on Oral Rehydration Salt. | 05 |
| Q.4 | (a) Write a note on Anti-oxidant. Explain preparation and uses of sodium thiosulphate. | 06 |
| | (b) Give an informative note on dental products. | 05 |
| | (c) Define the following terms with suitable example.
I. Cathartics
II. Preservatives
III. Sedative
IV. Deliquesant
V. Expectorants | 05 |
| Q.5 | (a) Write note on Respiratory stimulants and Expectorant | 06 |
| | (b) Define antidote. Give properties and preparation of Sodium Nitrite | 05 |
| | (c) Define buffer capacity. Give brief account on hard and soft acid base concept. | 05 |
| Q. 6 | (a) Write a note on GM counter. | 06 |
| | (b) Write a note on diluents as pharmaceutical aid. | 05 |
| | (c) Write a note on- combinations of antacid preparations. | 05 |
| Q.7 | (a) Discuss the sources of impurities in pharmaceuticals. | 06 |
| | (b) Write a note on chelating agents used in therapy. | 05 |
| | (c) Give a brief note on Indian Pharmacopeia | 05 |
