

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

Subject Code: 2210002

Date: 03/05/2018

Subject Name: Pharm Chem-I(Inorganic Chemistry)

Time: 02:30 PM TO 05:30 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) Classify the various gastrointestinal agents with examples. | 06 |
| | (b) What are Pharmaceutical buffers? Write down the applications of pharmaceutical buffers. | 05 |
| | (c) Write down the various clinical applications of radiopharmaceuticals. | 05 |
| Q.2 | (a) Write the assay principle and chemical reaction of the followings:
a) Zinc sulphate b) Potassium permanganate c) Boric acid | 06 |
| | (b) Give the synonym and uses of the followings:
a) Rochelle salt b) Blue vitriol c) Chlorinated lime
d) Precipitated chalk e) Muriatic acid | 05 |
| | (c) Classify antimicrobial agents with example and discuss its mechanism of action. | 05 |
| Q.3 | (a) Define Limit test. Write a detailed note on limit test of iron. | 06 |
| | (b) Discuss the biological significance of calcium. | 05 |
| | (c) Write a note on electrolytes used in replacement therapy. | 05 |
| Q.4 | (a) Enlist various methods for softening the hard water? Discuss any one method in detail. | 06 |
| | (b) Write a short note on chelating agents used in therapy. | 05 |
| | (c) Discuss the sources of impurities. | 05 |
| Q.5 | (a) Write a note on Antioxidant. Explain preparation and uses of sodium thiosulphate. | 06 |
| | (b) Give a brief account on Oral Rehydration salt. | 05 |
| | (c) Write composition of various Iodine preparations. | 05 |
| Q. 6 | (a) Write Preparation of the followings:
a) Sodium thiosulphate b) sodium hydroxide c) Calcium gluconate | 06 |
| | (b) Write a note on Geiger muller counter. | 05 |
| | (c) Define expectorants. Discuss the role of ammonium compounds as respiratory stimulants. | 05 |
| Q.7 | (a) Write a short note on Dentifrices. | 06 |
| | (b) Write about various haematinic preparations. | 05 |
| | (c) Discuss Physiological acid base balance. | 05 |
