

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER 2013

Subject Code: 210003**Date: 13-05-2013****Subject Name: Pharmaceutical Chemistry – I****Time: 02.30 pm - 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.**

- Q.1** (a) Classify gastrointestinal agents. Write a note on milk of magnesia. **06**
(b) Give a brief note on Indian Pharmacopeia **05**
(c) What are pharmaceutical buffers? Discuss applications of pharmaceutical buffers. **05**
- Q.2** (a) Write the assay principle of following compounds. **06**
1. Hydrogen peroxide
2. Calcium gluconate
3. Borax
(b) Discuss physiological acid base balance. **05**
(c) Discuss with suitable examples: Haematinics **05**
- Q.3** (a) Write a note on Inhalants and respiratory stimulants. **06**
(b) Give brief account on Oral Rehydration Salt. **05**
(c) Enlist various methods for softening the hard water? Discuss any one method in detail. **05**
- Q.4** (a) Classify: Dental products. Discuss Sodium fluoride as dental product. **06**
(b) Write composition of various iodine preparations. **05**
(c) Explain the followings: **05**
1. Pharmaceutical aids 2. Expectorants 3. Emetics 4.
Laxatives 5. Hygroscopic compounds
- Q.5** (a) Classify antimicrobial agents with examples and discuss their mechanisms of action. **06**
(b) Write a note on chelating agents used in therapy. **05**
(c) Discuss with reactions: limit test for Iron. **05**
- Q. 6** (a) Explain and classify: Antidotes. Give preparation and uses of sodium nitrite. **06**
(b) Discuss the sources of impurities in pharmaceuticals. **05**
(c) What are antacids? Outline the ideal requirements of an antacid. **05**
- Q.7** (a) Write a note on Anti oxidant. Explain preparation and uses of sodium thiosulphate. **06**
(b) Discuss briefly applications of radiopharmaceuticals **05**
(c) Explain: Limit Test. Write a note on limit test for arsenic as per IP **05**
