

Seat No.: _____

Enrolment No. _____

(PC-3)

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm. Sem-I Examination December 08/January 09

Pharm Chemistry-I(210003)

DATE: 24-12-2008, Wednesday TIME: 11.00 am to 2.00 p.m. MAX. 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)** Define and explain the following terms. **08**
- | | |
|-----------------------------------|------------------------------------|
| (i) Volume strength of H_2O_2 | (ii) Efflorescent and Deliquescent |
| (iii) Normality | (iv) Assay |
| (v) Bacteriostatic & Bactericidal | (vi) Indicator |
| (vii) Pharmacopoeia | (viii) Disinfectant |
- (b)** Explain the following statements giving equation where necessary. **08**
- (ANY FOUR)**
- (i) The pharmacopoeia do not prescribe the numerical values for the limit test..
 - (ii) Equivalent weight of $KMnO_4$ changes with the media.
 - (iii) Povidone – iodine is better than tincture iodine.
 - (iv) Strong ammonia is back titrated.
 - (v) Potassium iodide is added in aqueous iodine solution.
 - (vi) Aqueous solution of borax is alkaline.
- Q.2 (a)** Define and explain pharmaceutical aids used in pharmaceutical formulations. Write informative note on "Anti oxidant". Explain preparation, properties and uses of sodium thiosulphate. **08**
- (b)** Explain the various theories of acids and bases. Write preparation, reactions and assay principle of boric acid. **08**
- Q.3 (a)** Write an informative note on various dental products. Explain preparation, Properties and applications of sodium fluoride. **08**
- (b)** What do you understand by limit test? Give its importance in pharmacy. **08**
- Explain principle and procedure for limit test for Iron.
- Q.4 (a)** What do you understand by antacid? Explain briefly the characteristic of Ideal antacid. Give preparations, properties, and uses of aluminium Hydrochloride Gel. **08**
- (b)** Define and classify topical agents with suitable examples. Give preparation, Properties, uses and assay principle of Zinc oxide. **08**
- Q.5 (a)** Write short note on purified water and water for injection. How will you detect albuminoid ammonia in purified water? **08**

- (b) Describe the physiological importance of iron. Name the various compounds of iron which are used in pharmacy. Give method of preparation, properties And assay principle of any one of them **08**

Q. 6 (a) Define and explain antidote used in pharmacy. Enumerate types of antidote with example. Give preparation, properties and uses of any one. **08**

- (b) What do you understand by antibacterial agent? Explain its mechanism. Give preparation, properties, assay principle and uses of silver nitrate. **08**

Q. 7 Write short note on **any four** of the followings. **16**

- (a) Limit test for arsenic.
 - (b) Protectives.
 - (c) Radiopharmaceuticals.
 - (d) Argentometric titration.
 - (e) Electrolyte replenishers.
-