

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. Semester - IST Examination –July- 2011

Subject code: 210003

Subject Name: Pharm Chemistry-I

Date:08/07/2011

Time: 10:30 am – 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) | Define Limit Test. Write a detailed note on limit test for iron. | 06 |
| | (b) | Write a note on Gutzeit test. | 05 |
| | (c) | Write a detailed note on sources of impurities in pharmaceuticals. | 05 |
| Q.2 | (a) | Write a note on physiological acid base balance. | 06 |
| | (b) | Define an antacid. Give detail classification of antacids | 05 |
| | (c) | Define following terms. | 05 |
| | | 1) Emetics 2) Sedatives 3) Cathartics 4) Protectives | |
| | | 5) Laxatives | |
| Q.3 | (a) | Classify antimicrobial agents with examples and discuss their mechanisms of action. | 06 |
| | (b) | Write assay principle and chemical reaction of following | 05 |
| | | 1. Zinc oxide 2. Boric acid 3. Ammonium chloride. | |
| | (c) | Write in detail the assay and uses of Hydrogen Peroxide. | 05 |
| Q.4 | (a) | Give an account on biochemical importance of iron. | 06 |
| | (b) | Write a note on Dental Products | 05 |
| | (c) | What is meant by | 05 |
| | | 1) Official Compound 2) Pharmacopoeia 3) Buffer solution | |
| | | 4) Hard water 5) Buffer capacity | |
| Q.5 | (a) | Define antioxidants. Give preparation, properties and assay method of any one antioxidant. | 06 |
| | (b) | Write a note on chelating agents used in therapy. | 05 |
| | (c) | Discuss clinical applications of radio pharmaceuticals. | 05 |
| Q. 6 | (a) | Clarify: Water for injection, sterile water for injection and purified water I.P. | 06 |
| | (b) | Write a note on diluents as pharmaceutical aids. | 05 |
| | (c) | Discuss the biological significance of calcium. | 05 |
| Q. 7 | (a) | Distinguish between | 06 |
| | | 1. Poison and Antidote | |
| | | 2. Hypochlorhydria and Hyperchlorhydria | |
| | | 3. Hypokalemia and Hyperkalemia | |
| | (b) | Write a note on uses of ammonium chloride. | 05 |
| | (c) | Discuss at length on dried aluminum hydroxide gel | 05 |
