

GUJARAT TECHNOLOGICAL UNIVERSITY
BPHARM – SEMESTER – I • EXAMINATION – WINTER 2012

Subject code: 210003**Date: 11-01-2013****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.

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| Q.1 | (a) Write a brief note on Indian Pharmacopoeia | 06 |
| | (b) Give principle of limit test of Iron and lead | 05 |
| | (c) Write a short note on Sources of Impurities | 05 |
| Q.2 | (a) Explain the terms with examples
(i) Sclerosing agents (ii) Sedative (iii) Emetics | 06 |
| | (b) Define buffer capacity. Give brief account on hard and soft acid base concept. | 05 |
| | (c) Write note on Respiratory stimulants and Expectorant | 05 |
| Q.3 | (a) Give ideal characteristic of antacids. Classify antacids with examples | 06 |
| | (b) Give Chemical formula, properties and use of Talc | 05 |
| | (c) Give brief account on various diluents and preservatives used in Pharmaceutical Industry | 05 |
| Q.4 | (a) Write in detail about different type of waters | 06 |
| | (b) Define antidote. Give properties and preparation of Sodium Nitrite | 05 |
| | (c) Give use and properties of Simethicone | 05 |
| Q.5 | (a) Write in brief about behavioral properties of different radiations | 06 |
| | (b) Discuss about measurement of radioactivity | 05 |
| | (c) Define Dentifrices. Give properties and use Sodium Fluoride | 05 |
| Q. 6 | (a) Define Astringents. Give preparation and Chemical formula of any two compounds. | 06 |
| | (b) Give Chemical formula and use of Ferrous Sulphate | 05 |
| | (c) Give use: (i) Ammonium Chloride (ii) Iodine (iii) Sodium bicarbonate
(iv) Calcium gluconate (v) Zinc oxide | 05 |
| Q. 7 | (a) Write detail note on cathartics | 06 |
| | (b) Give chemical formula, preparation and use of common salt | 05 |
| | (c) Write a brief note on chelating agents in therapy | 05 |
