| Seat No.: | Enrolment No. |
|-----------|---------------|
| | |

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph. / M. Ph. / D.Ph. - SEMESTER-I • EXAMINATION - WINTER-2016

| • | | Code: 410002 Date: 21/10/2016 Name: Pharmaceutical Chemistry I | |
|------|------------|---|----------|
| _ | e:10: | 30AM TO 01:30 PM Total Marks: 80 | |
| | Mal | empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks. | |
| Q.1 | (a) | Define acids and bases according to Arrhenius, Bronsted- Lowry and Lewis approach and give their limitations if any. | 06 |
| | (b) | Give the method of preparation, properties, assay principle and uses of boric acid. | 05 |
| | (c) | Define buffers. Give mechanism of buffer action with suitable example. | 05 |
| (1 | (a) | What is antacid? Classify antacids with suitable examples in each class. Give the method of preparation and uses of calcium carbonate. | 06 |
| | (b) (c) | What are antioxidants? Write the ideal characteristic of antioxidants. Classify gastro-intestinal agents with examples. Comment on "Combination antacid preparations are advantageous than individual preparation". | 05 05 |
| Q.3 | (a) | What are Astringents? Give method of preparation, properties, uses and storage conditions of Hydrogen peroxide. | 06 |
| | (b) (c) | Write a brief note on Iodine as an antimicrobial agent. Define and classify topical agents. Give properties of Titanium dioxide. | 05 05 |
| Q.4 | (a) | What are dental products? How they are important for oral hygiene? Write some account on Sodium Fluoride. | 06 |
| | (b) (c) | Write the uses of radioisotopes. Discuss the storage and labeling condition required for oxygen, carbon dioxide and nitrous oxide. | 05 05 |
| Q.5 | (a) | Define antidote. Give the mechanism of action for different types of antidotes. Discuss the treatment of cyanide poisoning. | 06 |
| | (b) | What are expectorants? Write properties, uses and storage conditions of Ammonium Chloride. | 05 |
| | (c) | Write short note on Respirator Stimulants. | 05 |
| Q. 6 | (a) (b) | Write a detailed note on electrolyte replacement therapy. Enumerate official compounds of iron. Give preparation, procedure and uses of Ferrous Sulphate. | 06 05 |
| | (c) | What do you meant by impure chemical compounds? Discuss the sources of impurities in pharmaceuticals. | 05 |
| Q.7 | (a) | What is radio activity? How it is measured by G.M.Counter? Explain with figure. | 06 |
| | (b) | Give principle and role of each reagent used in the limit test of Iron. | 05 |

05

Give principle and diagram of apparatus of limit test of Arsenic.

(c)