

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 1 EXAMINATION – WINTER -2019

Subject Code: 2210002**Date: 30-12-2019****Subject Name: Pharm Chem-I (Inorganic Chemistry)****Time: 10:30 AM TO 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.

- Q.1** (a) Define the following terms with examples. **06**
1) Astringent, 2) Emetic, 3) Laxative,
4) Sedative, 5) Expectorant, 6) Antioxidant.
- (b) Enlist the sources of impurity in pharmaceuticals and explain the manufacturing hazards as source of impurity. **05**
- (c) Write a note on Gutzeit test. **05**
- Q.2** (a) Write the assay principle of following compounds. **06**
1) Hydrogen peroxide, 2) Ammonium chloride, 3) Magnesium sulphate.
- (b) Define and classify antacids. Enumerate ideal characteristics of antacid. **05**
- (c) Write a note on anaesthetics and respiratory stimulants. **05**
- Q.3** (a) Write the synonyms and uses of following compounds. **06**
1) Laughing gas, 2) Precipitated chalk, 3) Rochelle salt,
4) Caustic soda, 5) Lunar caustic, 6) Green vitriol.
- (b) Define and Classify topical agents giving examples. **05**
- (c) Give a brief note on chelating agents used in therapy. **05**
- Q.4** (a) Explain following terms. (Any three) **06**
1) Pharmacopoeia, 2) Limit test, 3) Assay, 4) Pharmaceutical aids
- (b) Define and Classify antidotes giving examples. **05**
- (c) Write briefly about various types of cathartics. **05**
- Q.5** (a) Write the synonyms and uses of following compounds. **06**
1) Epsom salt, 2) Bleaching powder, 3) Baking soda,
4) Slaked lime, 5) Boric acid, 6) Milk of magnesia.
- (b) Classify dental products with suitable examples. Give a brief account of zinc chloride as a dental product. **05**
- (c) Write in detail about types of water. **05**
- Q. 6** (a) Write the assay principle of following compounds. **06**
1) Copper sulphate, 2) Calcium gluconate, 3) Borax.
- (b) Explain various mechanisms of inorganic antimicrobial agents with examples. **05**
- (c) What are Radiopharmaceuticals? Give the application of Radiopharmaceuticals. **05**
- Q.7** (a) What are intra and extra cellular electrolytes? Write the physiological function of calcium and disease associated with it. **06**
- (b) Define buffer and buffer capacity. Derive Handerson-Hasselbach equation for buffer action. **05**

(c) Justify the importance of

05

- 1) Glycerine in assay of boric acid
- 2) Citric acid in limit test for iron.
- 3) Potassium iodide in aqueous iodine solution.
- 4) Nitrobenzene in assay of ammonium chloride
- 5) Hydrogen sulphide in limit test for heavy metal.

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