

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014

Subject Code: 2210002

Date: 30-12-2014

Subject Name: Pharmaceutical Chemistry-I (Inorganic Chemistry)

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.**

- Q.1** (a) Write a note on Gutzeit test. **06**
(b) Classify topical agents. Write preparation of potassium permanganate. **05**
(c) Explain working of Gieger Muller counter in detail. **05**
- Q.2** (a) Write a brief note on sources of impurities in pharmaceuticals. **06**
(b) Give preparation and assay principle of bleaching powder. **05**
(c) Define the following: 1) Hypochlorhydria, 2) Respiratory stimulant, **05**
3) Laxative, 4) Pharmacopoeia, 5) Preservative.
- Q.3** (a) What are antimicrobial agents? Give its mechanism of action. **06**
(b) Give preparation and uses of aluminum hydroxide gel and potassium iodide. **05**
(c) Write pharmaceutical applications of radiopharmaceuticals. **05**
- Q.4** (a) Comment on the following : **06**
1) Nitrobenzene is used in assay of ammonium chloride.
2) Citric acid is used in limit test of Iron.
3) Polyhydroxy alcohol is used in assay of boric acid.
(b) Write a note on cyanide poisoning and its treatment. **05**
(c) Give synonym of the following: 1) Muriatic acid, 2) Lunar caustic, 3) Milk of **05**
magnesia, 4) Lime water, 5) Rochelle salt
- Q.5** (a) Write a detail note on purification methods of water. **06**
(b) Explain antioxidant and its mechanism. Give criteria for substance to act as an **05**
ideal antioxidant.
(c) Explain various physiological buffer systems. **05**
- Q.6** (a) Define and classify antacid. Write ideal properties of antacid. **06**
(b) Give preparation and uses of sodium thiosulphate **05**
(c) What are anticaries agents? Explain any one inorganic compound used as **05**
anticaries agents.
- Q.7** (a) Enlist official compounds of calcium. Give preparation properties and uses of **06**
calcium gluconate.
(b) What are intra and extra cellular electrolytes? Give composition of oral **05**
dehydration salt.
(c) Write a note on various preparation of iodine solution. **05**
