Seat No.: \_\_\_\_\_ Enrolment No.\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - I • EXAMINATION - WINTER • 2014

	Subje Time Instru 1. 2.	ect Code: 2210002  Date: 30-12-2014  ect Name: Pharmaceutical Chemistry-I (Inorganic Chemistry)  : 10:30 am - 01:30 pm  Total Marks: 80  ctions:  Attempt any five questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	Write a note on Gutzeit test. Classify topical agents. Write preparation of potassium permanganate. Explain working of Gieger Muller counter in detail.	06 05 05
Q.2	(a) (b) (c)	Write a brief note on sources of impurities in pharmaceuticals. Give preparation and assay principle of bleaching powder. Define the following: 1) Hypochlorhydria, 2) Respiratory stimulant, 3) Laxative, 4) Pharmacopoeia, 5) Preservative.	06 05 05
Q.3	(a) (b) (c)	What are antimicrobial agents? Give its mechanism of action. Give preparation and uses of aluminum hydroxide gel and potassium iodide. Write pharmaceutical applications of radiopharmaceuticals.	06 05 05
Q.4	(a) (b) (c)	Coment on the following:  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.  Write a note on cyanide poisoning and its treatment.  Give synonym of the following: 1)Muriatic acid, 2) Lunar caustic, 3)Milk of magnesia, 4) Lime water, 5) Rochelle salt	06 05 05
Q.5	(a) (b) (c)	Write a detail note on purification methods of water.  Explain antioxidant and its mechanism. Give criteria for substance to act as an ideal antioxidant.  Explain various physiological buffer systems.	06 05 05
Q. 6	(a) (b) (c)	Define and classify antacid. Write ideal properties of antacid. Give preparation and uses of sodium thiosulphate What are anticaries agents? Explain any one inorganic compound used as anticaries agents.	06 05 05
Q.7	(a) (b) (c)	Enlist official compounds of calcium. Give preparation properties and uses of calcium gluconate.  What are intra and extra cellular electrolytes? Give composition of oral dehydration salt.  Write a note on various preparation of iodine solution.	06 05 05

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