Seat No.:	Enrolment No.
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Subject Code: 410002

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

 $\textbf{DIPLOMA PHARMACY - SEMESTER-I \bullet EXAMINATION-SUMMER \bullet 2014}$ 

Date: 22-05-2014

Subject Name: Pharmaceutical Chemistry-I			
Time Instr		0:30 am - 01:00 pm Total Marks: 80	
mstr	1. 2.	Attempt any five questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	How Cyanide give its poisoning effect? Write antidotes used in this case and its	06
	(b) (c)	mechanism of action. Write short note on Respiratory Stimulants. Enlist the official compounds of Iron and Calcium. Write biological importance of Iodine.	05 05
Q.2	(a) (b) (c)	Give various concepts of Acids and Bases in brief.  Discuss Antioxidants with their mechanism and give its ideal characteristics.  Write peroration properties uses and assay of Boric acid.	06 05 05
Q.3	(a)	Comment on "Combination antacid preparations are advantageous than individual preparation". Define antacids and give its classification.	06
	(b) (c)	Give properties, preparation, storage and different solutions of Iodine. Give the name of gases used as Inhalants and give storage condition of each.	05 05
Q.4	(a)	Enlist major intra and extra cellular electrolytes. Discuss physiological acid base balance.	06
	<b>(b)</b>	Define terms i) Astringents ii) Desensitizing agents iii) Abrasives. Give properties, preparation & use of Sodium Acetate	05
	(c)	What is the content of Ringer lactate solution? Write note on ORS.	05
Q.5	(a)	Give biological effect of Radiation. Write G-M counter in detail.	06
	(b) (c)	Discuss applications of Radiopharmaceuticals.  Define terms i) Achlorhydria ii) Buffers iii) Cathartics.  Give use of i) Kaolin ii) Potassium Iodide	05 05
Q. 6	(a)	Define Complexometric titration. What is the difference between Mohr's method and Modified Volhad's method for assay of sodium chloride.	06
	(b) (c)	Enlist the Sources of Impurity and its effect in pharmaceutical substances. Define terms i) Protectives ii) Expectorants iii) Hyperkalemia iv) Emetics & v) Germicids.	05 05
Q.7	(a)	Give properties, preparation & use of i)Hydrochloric Acid ii)Potassium Permanganate iii)Sodium Fluoride.	06
	(b) (c)	Give identification test for Aluminium and Bromide. Write short note on Limit test of Arsenic.	05 05

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