## **GUJARAT TECHNOLOGICAL UNIVERSITY** B.PHARM – SEMESTER –1 EXAMINATION – SUMMER-2024

Sub	ject C	Code: BP104TP Date: 14/06/2024	
Subj	ject N	Jame: Pharmaceutical Inorganic Chemistry	
Tim	e: 02.	.30 p.m. to 5.30 p.m. Total Marks: 80	
1. 2.	Mak	s: empt any five questions. xe suitable assumptions wherever necessary. ares to the right indicate full marks.	
Q.1	(a)	Define Pharmacopoeia. Write a brief note on Indian Pharmacopoeia and	06
	(b) (c)	Monograph. Enlist sources of impurities in pharmaceuticals. Explain any four in brief. Explain Limit test of Chloride in detail.	05 05
Q.2	<b>(a)</b>	Explain principle of Limit test of Arsenic. Draw a neat and labeled diagram of Gutzeit Test Apparatus.	06
	(b) (c)	Explain various acid-base theories with examples. Define Buffer. Explain significance of physiological buffers and pharmaceutical buffers.	05 05
Q.3	<b>(a)</b>	Explain major intra and extra cellular electrolytes. Describe the biological significance of Calcium and Iron.	06
	<b>(b</b> )	Write a short note on ORS.	05
	(c)	What are Dental Products? Write method of preparation, assay and uses of Calcium Carbonate.	05
Q.4	<b>(a)</b>	Define and classify antacids with examples. Explain ideal properties of antacid. Give one example of combination antacid.	06
	(b) (c)	Write a note on Cathartics. What are antimicrobial agents? Classify antimicrobial agents according to mechanism of action.	05 05
Q.5	<b>(a)</b>	Explain assay and uses of following compounds: (1) Ammonium chloride (2) Copper sulphate (3) Ferrous sulphate.	06
	(b) (c)	Differentiate :(1) Emetic & Expectorant (2) Antiseptic & Disinfectant Explain in detail cyanide poisoning and its treatment.	05 05
Q. 6	<b>(a)</b>	What is radio activity? Explain it with Units. Discuss the working of Geiger Muller Counter in detail.	06
	<b>(b)</b>	Discribe precautions to be taken during handling and storage of radio pharmaceuticals.	05
	(c)	Explain applications of various radiopharmaceuticals.	05
Q.7	<b>(a)</b>	Define following terms: (1) Haematinics (2) Dentifrices (3) Limit Test (4) Adsorbent (5) Saline cathartics (6) Antidote	06
	<b>(b)</b>	Give the synonyms and uses of the following: (1)Chlorinated lime (2) Green Vitriol (3) Milk of Magnesia	05
	(c)	<ul><li>Justify following statements with reactions of respective limit test.</li><li>(1)Alcohol is used in Limit Test of Sulphate.</li><li>(2)Thioglycolic acid is used in Limit Test of Iron.</li></ul>	05