B. PHARM 1ST YEAR, 1ST SEMESTER EXAMINATION, 2023 PHARMACEUTICAL INORGANIC CHEMISTRY

Time: Three hours Full Marks: 75

Answer any five questions taking at least two from each group Group A

- 1. a) Define limit test. Why are limit test done for pharmaceuticals? What are the tests for purity?
 - b) What are the sources of impurities? How can you control them in the pharmaceuticals?

5+10 = 15

2. Discuss in brief the principle, procedure & chemicals used in limit tests for 'Arsenic' and 'Lead' for a pharmaceutical.

 $7^{1}/_{2} \times 2 = 15$

- 3. a) Define and classify antiseptics & disinfectants with examples. Outline the mechanism of action of inorganic germicides.
 - b) Write short notes on Bleaching powder, KMnO₄ and H₂O₂.

5+10=15

- 4. a) What are gastrointestinal agents? Classify them with examples. Write short notes on Acidifying agents & local antacids.
 - b) What are laxatives, classify them with examples. Write short notes on stimulant purgatives, osmotic purgatives and bulk laxatives.

[Turn over

Group-B

5.	a) Write about Heamatinics and Ferrous sulphate.b) Classify Antidotes with mechanism and example.	9 + 6 = 15
6.	Answer any ten short questions of the following:	$10 \times 1.5 = 15$
	a) Complete it. $_{92}X^{235}$ -1α = Y	
	b) Curie is unit of	
	c) I ¹³¹ is used for cancer of	
	d) Activated charcoal id used as	
	e) Iron is absorbed in body asform (Ferrous/Ferric).	
	f) Low concentration of Sodium ion in body is called	
	g) Higher concentration of Potassium ion in body is called	
	f) Oral Rehydration Salt is used as	î
	g) Use of Sodium chroride is as	
	h) Dimercaprol is used as	
	i) Complete it. ${}_{90}Y^{230} -2\beta = Z$	
	j)is used in physiological acid base balance.	
	k) Calcium carbonate is used as	
	l) Zinc eugenol cement is used as	
7	. a) Discuss about different uses of radiopharmaceuticals with suitable exa b) How will you calculate half life for radiopharmaceuticals? Derive it.	mples.
	c) How Geiger Muller Counter works?	8 + 5 + 2 = 15
8	3. a) Write in details about major physiological ions. b) Write about caries and anti-caries agent.	9 + 6 = 15