

Roll No.: _____

Enrolment No. _____

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.PHARM FIRST SEMESTER

FIRST INTERNAL THEORY EXAMINATION: 2022-23

Subject Name: Pharmaceutical Inorganic Chemistry

Subject Code: BP104T

Time: 1 hr 15 min

Date: 12/01/2023

Total Marks: 30

Instructions:

1. Make suitable assumptions wherever necessary.
2. Figures to the right indicate maximum marks.

		CO	BL
Q.1	Multiple Choice Questions.	10 Marks (10 X 1=10)	
1	8 th edition of indian pharmacopoeia was published in	(1)	2
	a) 2022		
	b) 2018		
	c) 2010		
	d) 2007		
2	Limit test of arsenic is performed in apparatus.	(1)	2
	a) Geiger muller		
	b) Gutzeit		
	c) cathode tube		
	d) mercuric chloride paper		
3	Impurities in pharmaceutical preparation may be due to following sources	(1)	2
	a) raw material		
	b) manufacturing process		
	c) chemical instability		
	d) all of above		
4	What is the role of citric acid in the limit test of iron?	(1)	3
	a) Helps in precipitation of iron		
	b) Prevent precipitation of iron		
	c) Oxidize iron		
	d) A & C both		
5	Which compound shows opalescence in the limit test of sulphate?	(1)	3
	a). BaCl ₂		
	b). BaSO ₄		
	c) AgCl		
	d). a & b both		
6	Which one of the following is the types of Pharmaceutical buffers	(1)	1
	a) Acidic buffer		
	b) neutral buffer		
	c) a & b both		
	d) none of above		
7	Fluorides act as an anti caries agent by.....	(1)	2
	a) Increase acid solubility of enamel		
	b) Bacterial inhibition		
	c) Decrease acid solubility of enamel		
	d) a & b both		
8	What is Addison's disease?	(1)	1
	a) decreased sodium level		
	b) decreased aldosterone		
	c) increased sodium level		
	d) All of the above		
9	What is normal plasma sodium concentration	(1)	2
	a) 140 mEq/ lit		
	b) 5 mEq/ lit		
	c) 3.8 mEq/ lit		
	d) all of above		

10	Which of the following is the principle of calcium gluconate assay?	(1)	2	3
	a) acid base titration			
	b) redox titration			
	c) complexometric titration			
	d) none of above			
Q.2	Long Answer: (Answer Any one)	10 Marks (1 X 10 =10)		
	1) Enlist major intra and extra cellular electrolytes, write a note on ORS and assay of NaCl.	10	2	2
	2) Derive buffer equation and give pharmaceutical applications of buffers.	10	2	2
Q.3	Short Answer: (Answer Any Two)	10 Marks (2 X 5=10)		
	1) What is impurity? Enlist the sources of impurities. Explain only two sources of impurities.	5	1	2
	2) Give the modified limit test of chloride and sulphate.	5	1	3
	3) What is the principle of arsenic limit test? Draw a well labelled diagram of gutzeit apparatus.	5	1	3