Seat No: _

Enrollment No: ___

PARUL UNIVERSITY **FACULTY OF PHARMACY**

B. Pharm. Summer 2017 - 18 Examination

Semester: 1 Date: 05/06/2018

Subject Code: BP104T Time: 10.00 am to 1.00 pm **Total Marks: 75**

Subject Name: Pharmaceutical Inorganic Chemistry

Instructions:

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

Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)

(20)

- Role of Citric acid in the Limit test for Iron
 - a) Makes complex with iron

- b) Makes complex with ammonia
- c) Makes complex with Thioglycollic acid
- d) Precipitates with Iron
- 2. Impurities in pharmaceutical preparation may be due to following sources:
 - a) Raw material

b) Manufacturing process

c) Chemical instability

d) All of the above

- 3. In Bronsted-Lowry concept acid is
 - a) proton donor

b) electron donor

- c) proton accepter
- The goal of antacid therapy

- d) electron accepter
- a) \Concentration of acid in gastric juice c) \Concentration of acid
- b) Gastic pH 3.5 and 7 d) Both a and b

- Full Form of ORS
 - a) Oral Replenisher salts

b) Oral Rehydrating salts

c) Oral Refreshment salts

- d) Oral Rehydration salts
- State the reaction for Limit test for Chloride 6.
 - a) $2Cl^{-} + CaCO_3 \rightarrow CaCl_2$

b) $Cl^- + NaOH \rightarrow NaCl$

c) $Cl^- + AgNO_3 \rightarrow AgCl$

- d) $2Cl^{-} + BaSO_4 \rightarrow BaCl_2$
- Role of Lead acetate Cotton plug in Gutzeit Apparatus
 - a) To form Lead sulphide

b) To form Arsine sulphide

- c) To form Lead Chloride
- 8. Al(OH)₃ gel is used in a) Dentifrices

d) To form Lead nitrate

- c) Ulcers
- Synonym of Magnesium Hydroxide mixture
- b) Radioactive agent

d) Expectorant

- a) Compound Magnesium Hydroxide solution
- b) Milk of Magnesia

c) Ringer's injection

d) Hartmann's solution for Injection

b) by changing chemical nature of poison

- 10. Which of the following is not an example of a weak acid
 - a) Lactic acid

b) Carbonic acid

c) Sulfuric acid

d) Pyruvic acid

- The mechanism of antidote action
 - a) by counteracting the effect of poison
- - c) by preventing absorption of poison into the
- d) all of the above

- body
- 12. Cathartics are the drugs used to
 - a) reduce acidity

- b) reduce constipation
- c) reduce gastrointestinal irritations
- d) all of the above

- 13. Synonym of Chlorinated lime
 - a) Bleaching power

b) Milk of Magnesia

c) Ringer's injection

d) Lugol solution

14.	What should be ideal property for an antacid	prepration?	
	a) It should not be absorbable	b) Not causes systemic alkalosis	
	c) Should buffer in the pH range 4–6	d) All of the above	
15.	CuSO ₄ is essential component of		
	a) Fehling solution	b) Benedict solution	
	c) Tollens reagent	d) Molisch reagent	
16.	Assay of sodium fluoride can be done by		
	a) Gravimetric titration	b) Redox titration	
	c) Complexometric titration	d) Non aqueous titration	
17.	State the agent that used in cyanide poisoning		
	a) Sodium thiosulfate	b) Activated charcoal	
	c) Ferrous gluconate	d) Sodium Potassium Tartarate	
18.	•		
	a) excessive blood loss	b)excessive blood formation	
	c) both (a) and (b)	d) none of the above	
19.	In a radiation change a nucleus usually losses just one particle of α and β , it is frequently accompanied by		
	a) X-ray	b) Gamma ray	
	c) both of the above	d) none of the above	
20.	Dil.HCl is		
	a) Antacid	b) Expectorant	
	c) Acidifiers	d) Astringents	
Q.2	2 Long Answers (any 2 out of 3) (10 Mark Each)		(20)
	List out the sources of impurities in Pharmaceutical substance and Explain each sources with example.		
	Enumerate the various Acid Base theories. Explain each with its limitation in detail.		
3.	What are gastrointestinal agents? Classify them with examples. Describe about qualities of an ideal		
	antacid and combination therapy of antacids.		
Q.3	3 Short Answers (any 7 out of 9) (5 Mark Each)		(35)
1.	Write in detail about Limit test for Arsenic with diagram.		
2.	What are dentifrices? Write role of fluoride in the treatment of dental caries.		
3.	Write short note on electrolyte (I) Sodium (II) Potassium		
4.	What are radiopharmaceuticals? Write their applications.		
5.	Define antidote and classify it. Write a note on Sodium thiosulfate.		
6.	Write a brief note on Buffer capacity and Buffer action.		
7.	What are antimicrobial agents? Describe it mechanism of action.		
8.	Write a note on ORS.		
9.	What are Expectorants? Explain Ammonium C	Chloride in brief.	