341154(41)

B. Pharmacy (First Semester) Examination, Nov.-Dec. 2020

(PCI Scheme)

(Branch: Pharmacy)

PHARMACEUTICAL INORGANIC CHEMISTRY

Time Allowed: Three hours

Maximum Marks: 75

Note: Attempt specified number of questions from each section.

Section-A

(Multiple Choice Questions) 20×1=20

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- 1. Attempt all questions:
 - (i) Which of the reagent used in limit test of sulphate:
 - (a) Silver nitrate
 - (b) Barium chloride
 - (c) Thioglycolic acid

		[2]
	(d)	None of the above
(ii)	Limit	test is performed to find the
	(a)	Type of compound
	(b)	Type of reaction
	(c)	Type of reaction condition
	(d)	Impurity
(iii)	How	we can determine the pH?
	(a)	By potentiometer
	(b)	By amperometer
	(c)	By conductometer
	(d)	None of the above
(iv)	Whic	h of the following pair is a conjugate acid-
	base	pair?
	(a)	CH ₃ COOH and OH
		HCN and OH HCl and OH
	(d)	HCN and CN

		[3]		
	(a)	Solvay process		
	(b)	Merck process		
	(c)	Haber's process		
	(d)	Ammonia soda process		
(vi)	Bloo	d plasma belongs to	n 50	
	(a)	Intracellular fluid		
	(b)	Extracellular fluid of live		
	(c)	Intorstitial fluid		
	(d)	(b) and (a) both		
(vii)	Whic	ch of the following ion	ns diffus	ion easily
	betw	veen extracellular ar	nd intra	cellular
	comp	partments?		
	(a) (b)	Chlorine Magnesium		
	(c)	Potassium		
	(d)	Sodium		
(viii)	Lost	of water occurs through		(0)
	(a)	Lungs swell suff k		

(b) Skin

Strong ammonium hydroxide is prepared by

		[4]			
	(c)	GIT			
	(d)	All of the above			
(ix)	Which of the following used as desensitizers?				
	(a)	Sodium fluoride			
	(b)	Calcium carbonate			
	(c)	Zinc chloride	ME 281/11		
	(d)	Stannous fluoride	rtr∰t atri i a	,	
(x)	Amr	monium chloride can	be used as:		
	(a)	Antacid			
A Fe IC	(b).	Oathartics 1 11 770110			
11111	(ć)	Acidifiers 101-050			
	(d)	Emetic			
(xi)	The	condition of insuffic	cient acidity	in gastric	
	secre	etion is known as :	กาลหมูส์รั	HT	
	(a)	Achlorhydria			
	(b)	Hypochloria			
	(c)	Akalemia			
	(d)	None of the above			

(xii)	Which of the following is systemic antacid?			
	(a)	Aluminium hydroxide	(
	(b)	Calcium chloride	314 3	
,		Sodium bicarbonate		
	(d)	Aluminium chloride	E .	
(xiii)	Heav	vy kaolin is A. H. Oliz 4 D.	of l	
	(a) -	Aluminium silicate Manager	:5	
	(b)	Aluminium hydroxide	1 4	
1 (= 0)	(c).	Aluminium carbonate	ertig girzzh	
	(d)	Aluminium chloride		
(xiv)	Bisn	nuth subcarbonate is used as		
		Cathertics		
	(b)	Adsorbent		
	(c)	Antacid		
	(d):	e ample of physiclogical sitems e	all (liya	
(xv)	Whi	ich of the following can be used as	cathartic:	
. ,	(a)	Copper sulphate? and manifest		
	(b)	Soonn cente		
		Copy et sciphae		

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- (c) Ammonium chloride
- (d) Magnesium sulphate
- (xvi) Chemical formula for Sodium Potassium Tartrate is:
 - (a) $C_4H_4KNaO_6\cdot 4H_2O$
 - (b) $C_4H_4KNaO_4 \cdot 2H_2O$
 - (c) C₃H₄KNaO₆
 - (d) $C_4H_4KNaO_5 \cdot H_2O_4$
- (xvii) Stimulation of chemoreceptor trigger zone causes the:
 - (a) Emesis
 - (b) Diarrhoea
 - (c) Bowel irritation
 - (d) Sensitivity
- (xviii) The example of physiological antidote is
 - (a) Activated charcoal
 - (b) Sodium thiocyanate
 - (c) Sodium nitrite
 - (d) Copper sulphate

- (xix) The chemical formula of Alum is
 - (a) KAl(SO₄)·12H₂O
 - (b) $K_2SO_4 \cdot 12H_2O$
 - (c) $K(SO_4)_2 \cdot 12H_2O$
 - (d) KAISO₄·12H₂O
- (xx) Which is used as common quenching agent?
 - (a) Chlorine and bromine
 - (b) Methane
 - (c) Alcohol
 - (d) Argon

Seciton-B

(Long Answer Type Questions) $2\times10=20$

Note: Attempt any two questions.

- 2. What is impurity? Explain the principle and procedure for the limit test of sulphate.
- 3. Write the function of different ions present in physiological fluid along with the role of calcium gluconate in

4. What is Antacid? Write the ideal characteristics of antacid. Give the properties and assay method of sodium bicarbonate.

Section-C

(Short Answer Type Questions) $7 \times 5 = 35$

Note: Attempt any seven questions.

- 5. What is buffer? Write the method of measurement of isotonicity.
- 6. Write a note on dentifrices.
- 7. Discuss the role of hydrogen peroxide as antimicrobial agent.
- 8. Discuss the mechanism of sodium thiosulphate as antidote.
- 9. Give the assay and uses of ferrous sulphate.

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- 10. Explain the preparation and role of potash alum as astringents.
- 11. Write application of radioactive substances.
- 12. What are the uses of acidifier. Discuss with suitable example.
- 13. Describe the different sources of impurities.