PCII-BP104T - S3 about:srcdor

Exam Date & Time: 13-Dec-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmaceutical Inorganic Chemistry [PCH-BP104T - S3]

	r narmaceutical morganic Chemistry [r Ch-br 1041 - 55]
Marks: 75	Duration: 180 mins
	I Multiple Choice Questions (MCQs)
Answer all	the questions. Section Duration: 30 mins
1)	In 1820, a group of physicians concerned for the quality and consistency of medicines published the
	United States of Pharmacopeia 2) Europian Pharmacopoeia 3) British Pharmacopoeia 4) International Pharmacopoeia (1)
2)	Impurities in pharmaceutical preparation may be due to following sources:
	1) Raw Manufacturing Chemical instability 4) All of the above (1)
3)	Lead impurities are detected in limit test by reaction with
	1) Thioglycollic acid 2) Hydrogen Sulphide 3) Barium Chloride 4) Diphenylthiocarbazone (1)
4)	In limit test of sulphate, alcohol does not allow the of barium sulphate.
	1) saturation 2) super saturation 3) less saturation 4) precipitation (1)
5)	Yellow colour stain formed in arsenic limit test is due to the formation of
	Mercury 1) Arsenous arsenide 2) Mercury arsenide 3) Mercury arsenic acid 4) Mercury Arsenous acid 4)
6)	Systemic acidosis is a condition, in which
	pH of the blood is more than normal 2) pH of the blood is less than normal 3) More acid secretion in the stomach 4) Less acid secretion in the stomach
7)	The synonym of aqueous iodine is
	1) Bleaching powder 2) Strong tincture of Iodine 3) Lugol's solution 4) Weak iodine solution (1)
8)	Hydrogen peroxide is used as
	1) antiseptic 2) acidifying agent 3) protective 4) antioxidant (1)
9)	Agents that act by increasing the osmotic load of gastro intestinal tract by absorbing (1)

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	large quantity of water and thereby stimulate peristalsis are called as
	1) Bulk purgatives 2) Saline purgatives 3) Stimulant purgatives 4) Emollient purgative
10)	is the inorganic expectorant in cough mixture.
	1) Ammonium chloride 2) Sodium chloride 3) Hydrocholoride 4) Silver chloride
11)	Cryoscopic Method is used for
	Calculation of amount of substances that 1) of buffer 2) of pH of the capacity buffer 2) Calculation 3) may be added 4) of the above 1
	drugs to render
10)	Carallita and aire
12)	Carnallite contains
	1) Sodium chloride 2) Sodium fluoride 3) Magnesium carbonate 4) Potassium chloride
13)	Sodium fluoride is assayed by
~~)	
	1) Complexometry 2) Redox titration 3) Gravimetry 4) Ron-aqueous titration (
14)	Indicator used in the assay of Potassium iodide is
	1) Starch 2) Litmus 3) Iodine 4) None of
	monochioride the above
15)	The number of molecules of water of crystallization in dried Ferrous Sulphate is
	1) Three 2) Two 3) One 4) Zero
16)	Identify the wrong statement with regard to Astringents
	They precipitate proteins 2) They constrict blood vessels 3) They possess strong local antiseptic action They provide protection from external irritation
17)	Which of the following statements is not true with regard to sodium acetate?
	It is used 1) as urinary acidifier 2) Has diuretic property 3) Used as an expectorant expectorant 4) Is assayed by non-aqueous titration method
18)	Potassium Citrate is a
	Mono 1) potassium 2) potassium 3) potassium 4) Tetra potassium salt salt

19)	Henderson-Hasselbalch equation is	
* /	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	(1)
20)	Lactic acid is not a	
	1) Alpha- hydroxy acid 2) Keratolytic 3) Acetic acid derivative 4) Antibacterial agent	(1)
	II Long Answers	_
Answer all	the questions.	
21)	What are antimicrobial agents? Explain its mechanism of action. Explain the preparation of potassium permangante.	(10)
22) a)	A buffer contains 0.05 mole/liter of formic acid and 0.10 mole/liter of sodium formate. The pKa of formic acid is 3.75. The ionic strength of the solution is 0.10. Compute the pH of the buffer (a) with and (b) without the consideration of the activity coefficient correction. Give the advantages and disadvantages of Lewis theory of acids and bases 3M + 2M = 5M	(5)
b)	List out the functions of potassium and calcium in the body	(5)
	III Short Answers	
	the questions.	
23)	How the impurities get incorporated in to the pharmaceutical preparations during manufacturing and storage? Explain	(5)
24)	Give the method of preparation, physical property and uses of calcium carbonate	(5)
25)	Define astringents. Explain their mode of action and uses. Give the synthesis of any one of them.	(5)
26)	What are antidotes and emetics? Give examples. Write the preparation and uses of copper sulphate	(5)
27)	Give the method of preparation, physical property, and assay of ferrous gluconate	(5)
28)	What modification is done in the limit test for chloride for potassium permanganate and sodium bicarbonate? Why?	(5)
29)	Explain different modes of radioactive decay.	(5)
End		