Exam Date & Time: 17-Mar-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm First Semester - End Semester Examination March 2022

PCH-BP104T: Pharmaceutical Inorganic Chemistry

Max. Marks: 75

Pharmaceutical Inorganic Chemistry [PCH-BP104T]

Answer all the questions. The world's first pharmacopoeia was published in the year (1) 1) 1864 2) 1820 3) 1951 4) 1953 2) One of the solvent below is of low toxicity (1) 1) Cyclohexane 2) Acetic acid 3) carbon tetrachloride 4) Acetonity (1) Lead impurities are detected in limit test by reaction with 1) Thioglycollic 2) Hydrogen 3) Barium 4) Dithizone 4) In limit test of sulphate alcohol not allow (1) 1) saturation 2) super saturation 3) less saturation 4) precipitation	80 mins.
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4) In limit test of sulphate alcohol not allow (1) (1)	
4) In limit test of sulphate alcohol not allow (1) (1)	(1)
4) In limit test of sulphate alcohol not allow (1)	(1)
(1)	2
1) saturation 2) super saturation 3) less saturation 4) precipitation	
[1] [3] [4] [5] [4] [5] [5] [6] [6] [6] [6] [6] [6] [6] [6] [6] [6	
5) Yellow colour stain formed in arsenic limit test is due to the formation of	
Mercury arsenide Mercury arsenic Mercury arsenic Mercury arsenic Mercury arsenic Mercury arsenic Mercury Arrangement (1) Arrangement (2) Mercury arsenide (3) Arrangement (3)	
1) arsenate 2) 3) acid 4) Arsenous	s acid
6) Systemic acidosis is a condition, in which	
pH of the blood More acid Less acid is m	1 1
blood than is less that secretion in the	1 1
(1) (2) (3) (4) secretion in	
normal norma	1
stomach the stomach	n soe

7)	The synonym of aqueous iodine is	791
	Bleaching Strong tincture of Iodine Lugol's Weak 3) solution 4) iodine	(1)
	solution	((0)
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 large quantity of water and thereby stimulate peristalsis are called as	7.1
		(1
	1) Bulk purgatives 2) Saline purgatives 3) Stimulant purgatives 4) Emollient purgative	-set
10)	An inorganic agent act by irritating gastric mucosa & then stimulate respiratory tract secreti	ion
	1) Terpin hydrate 2) Ammonium chloride 3) Ambroxol 4) Codeine	-
11)	Is not sulphur containing amino acid	
	1) Methionine 2) Cysteine 3) Taurine 4) Threonine	
12)	Isotonic solutions are not used in	
	Wet 2 Loss of 3 Irrigating body 4 Irrigating	(1)
12)	dressings Sodium Cavities Issues	
13)	Interstitial fluid consists of	(1)
	1) 25-35% of 2) 45-50% of 3) 4-5% of 4) 12-15% of 4	(1)
14)	body weight body weight	
	For protein	
	Activate Secretion Cofactor synthesis and for	(1)
	1) carbohydrate and protein 2) of parathyroid 3) for glycolytic 4) smooth functioning of	
	metabolism harmone enzymes theneuromascular system	
15)	Calcium phosphate is used as (1)	
	1) Polishing 2) Desensitizing 3) Dentifrice 4) Anticaries	
	1) Polishing 2) Desensitizing 3) Dentifrice 4) Anticaries agent	
16)	Hydroxyapatite is the mixture	
	carbonate, Calcium, carbonate, Hydrogen, Calcium,	
	1) phosphate and hydroxides 2) phosphate and hydroxides 3) Calcium, 4) hydrogen phosphate	

(1)17) It is also known as white vitriol (1)Zinc oxide Zinc Sulphate Zinc Chloride 4) Zinc Carbonate Alums are sulphates of 18) Trivalent Trivalent Univalent Univalent (1)metal metal metal atom with a 1) with a 2) with divalent 3) with a 4) divalent univalent atom trivalent atom metal atom 19) Styptic action is the property of (1)Haematinics Astringents 3) Antidotes Expectorants 20) Sodium thiosulphate is assayed by (1)Iodimetric Iodometric Precipitation Complexometric 2) method method. titration. titration. II Long Answers Answer all the questions. 1) What are antimicrobial agents? Explain its mechanism of action. Write the preparation and assay principle of boric acid. a) What is buffer capacity? Explain the mechanism of buffer. Mention the standard buffers given in 2) Indian Pharmacopoeia? b) Explain how the body maintains acid base balance? III Short Answers Answer all the questions. What are Haematinics? Write the preparation and advantages of ferrous sulphate. 1) How the impurities get incorporated in to the pharmaceutical preparations during the manufacturing 2) process? Explain. 3) Give the preparation, principle involved in the assay and medicinal uses of any one inorganic expectorant. (5)4) Classify antidote. Give the preparation of any two inorganic compounds used as antidote. (5)5) Explain how the fluorescence by the radiation is useful in the measurement of radiation? (5)

6)	What modification is done in the limit test for chloride for potassium permang	ganate and sodium
5	salicylate? Why?	(5)

7) Write a short note on alpha, beta and gamma decay.

(5)

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