2024/12

B. PHARM. FIRST SEMESTER PHARMACEUTICAL INORGANIC CHEMISTRY BP104T



[USE OMR FOR OBJECTIVE PART]

Du	ration: 3 hrs.	Full Marks: 75
	e: 30 min. Oose the correct answer from the follow	Marks: 20
1.	Sodium nitrite is an antidote for a. Arsenic poisoning c. Heavy metal poisoning	b. Cyanide poisoningd. Lead poisoning
2.	Which of the following isn't a hematinic a. Folic acid c. Iron	b. Vitamin B12 d. Calcium
3.	Potash alum is assayed by me a. Oxidation-reductions c. Gravimetric	thod b. Complexometric d. Precipitations
4.	Which of the following is prepared by Solva. Sodium bicarbonate c. Magnesium sulphate	vay process b. Dil. HCL d. Sodium orthophosphate
5.	Calcium gluconate can be used as a. Antacid c. Laxative	b. Electrolyte replenisher d. Astringent
6.	is prepared when rock is mined a. Bismuth subcarbonate c. Kaolin	b. Sodium bicarbonate d. Sodium hydroxide
7.	In the limit test of sulphate alcohol preven a. Saturationc. Less saturation	ts b. Super saturation d. Precipitation
8.	Which one of these is used as isotonicity as a. Boric acid c. Sodium chloride	djuster b. Dextrose d. All of them
9.	In limit test of iron purple colour formatio a. Ferrous sulphate c. Ferric glycolate	n is due to b. Glycolate d. Glycolic acid

10.	Limit test of chloride is performed in			
	a. Measuring cylinder	b.	Nessler cylinder	
	c. lodine flask		Gutzeit	
11.	Amphoteric is a substance behaves as			
	a. Acid	h	Base	
	c. Both acid and base		Strong base	
12.				
12.	The first Indian edition of pharmacopeia va. 1956			
	c. 1955		1959 1948	
12		a.	1948	
13.	Which radiation is the least penetrating?			
	a. Alpha c. Gama		Beta	
			Delta	
14.	Which of the following statement is not correct?			
	a. Isotope has the same proton number	b.	Isotope has different mass	
	but different neutron number			
	c. All the isotope are radioactive	d.	None of the above	
15.	Containers that are used to safely store and transport radioisotopes must be made of			
	which metal?			
	a. Iron		Aluminium	
	c. Copper	d.	Lead	
16.	Scintigraphy is used to detect radioisotope	s tha	t emit which kind of radiation?	
	a. Alpha	b.	Beta	
	c. Gama	d.	Delta	
7.	Replacement therapy is needed when			
	a. Heavy loss of water	b.	Prolonged fever	
	c. Diarrhoea		All of the above	
8.	Which of the following is not a type of imp	mrit	t in pharma antical actual actual actual	
	a. Organic impurities	b	Inorganic impurities	
	c. Residual solvent	d.	Microbial impurities	
0			Microbial impullies	
9.	Buffer solution are usually made by			
	a. Weak acid and weak base		Weak acid and its salt	
	c. Strong acid and its salt	d,	Strong acid and base	
0.	Which of the following is used as acidifier			
	a. Dil. HCl	b.	Sodium bicarbonate	
	c. Magnesium sulphate	d.	Potassium permanganate	

PART-B: Descriptive

Time: 2 hrs. 30 min. Marks: 35 [Answer any seven (7) questions] 1. What are cathartics? How magnesium sulphate is prepared in 1+4=5 laboratory and write its uses. Explain the role of fluoride in the treatment of dental caries. 5 Derive Henderson-Hasselbalch equation for basic buffer. 5 4. What is the difference between limit and limit test? Write the 2+3=5 principle involve in limit test of arsenic with the reaction? What is an astringent? Write notes on potash alum? 1+4=5 What is radioactivity? Discuss the properties of a, B and y 1+4=5 radioactive rays Discuss Geiger-muller counter for the measurement of 5 radioactivity? Define haematinics? Discuss the preparation and assay of ferrous 1+4=5 sulphate. Explain the various source of impurities in pharmaceuticals 5 industry.

[Answer any two (2) questions]

1.	What is antacid? Write the classification of antacid? Why combination of antacid are important for better action of drugs?	1+5+4 =10		
2.	2. Define the following term (i) osmotic pressure (ii) isotonic solution (iii) buffer capacity. Describe the methods used to adjust isotonicity?			
3.	Write the classification of antidote based on their mechanism of action? Discuss any two-antidote used for cyanide poisoning	3+7=10		