DOCTOR OF PHARMACY

First Year Pharm. D.: SUMMER: 2022

SUBJECT: PHARMACEUTICAL INORGANIC CHEMISTRY

: Thurs : 19-0:	•	Time: 10:00 AM-01:00 F S-5728-2022 Max. Marks: 70	PM
N.B:			
	1)	Q.No.1 and Q.No.5 are COMPULSORY. Out of remaining solve any TW	0
		Questions from Section-I and Section-II	J
	2)	Answer to both the section should be written in SEPARATE answer book.	
	3)	Figures to the right indicate FULL marks.	
0.1	A >	SECTION-I	(00
Q.1	A)	Attempt any FOUR of the following.	(08
	i)	What do you mean by Salt hydrolysis?	
	ii)	Write biochemical role of Copper as essential and trace element.	
	iii)	Give the principle and reaction involved in the Assay of Ferrous sulphate.	
	iv)	List out the conditions that are responsible for Hyponatremia.	
	v)	How will you prepare and standardized 0.1 N KMnO ₄ solution.	
	B)	What do you mean by Volumetric analysis? Give the classification of	(03
		Volumetric analysis.	
Q.2		Define the terms: Bacteriostatic and Germicidal agent. Discuss in detail	(12
		different mechanisms of Antimicrobial action with suitable example. Add a	(~-
		note on Assay of Hydrogen peroxide.	
Q.3	`	Diament the region of the control of the Court of the Cou	(O.
	a)	Discuss the various physiological buffers in detail for maintaining the	(07
	1. \	physiological acid-base balance in our body.	(0.5
	b)	Give the limit test for Iron in detail.	(05
Q.4		Write short note on any THREE of the following.	(12
	a)	Derive an equation for dissociation constant for weak acid	
	b)	Properties of Radioisotopes	
	c)	Limit test for Sulphate	
	d)	Antidotes	
		SECTION-II	
Q.5	A)	Attempt any FOUR of the following.	(08)
	i)	Give the preparation and standardization of 0.05 M Disodium EDTA	
	,	solutions.	
	ii)	Why particle size is important in Protectives? Give examples of Protectives.	
	iii)	Give the classification of Acidifying agents with example.	
	iv)	What are Anticaries agents? Explain the properties of Anticaries agents.	
	v)	Give the properties, uses and storage conditions of Nitrous oxide gas.	
	B)	What do you mean by Precipitation titrations? Give the preparation and	(03
	D)	standardization of 0.1 M Silver nitrate.	(00)
0.6		Community and Malay's mothed and Walhard's mothed for detection of and	(12
Q.6		Compare between Mohr's method and Volhard's method for detection of end	(14
		point in Precipitation titration. Add a note on Assay of Sodium Chloride	
		injection.	
Q.7	a)	Give the classification of Antacids. Discuss in detail Antacid therapy.	(07
	b)	Explain in detail Leveling and differentiating effect in non-aqueous titrations.	(05)
Q.8		Write short note on any THREE of the following.	(12
	a)	Filtering medias in gravimetric analysis	\
	a) b)	O ₂ gas as a medicinal agents	
	c)	Saline Cathartics	
		Antioxidants	
	d)	* * * * * * * * * * * * * * * * * * *	